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ABSTRACT

This report examines the characteristics of the artist population in 1990 and compares them to the 1980 and 1970 census results. Artist occupations selected for study include: actors and directors; announcers; architects; authors; dancers; designers; musicians and composers; painters, sculptors, craft-artists, and artist printmakers; photographers; teachers of art, drama and music in higher education; and artists, performers, and related workers not classified elsewhere. The study examines: (1) "Growth in the Artist Work Force"; (2) "Geographic Trends"; (3) "Demographic Trends"; (4) "Trends Among Women and Minority Artists"; (5) "Age Trends"; (6) "Education Trends"; (7) "Full Time Work Last Year"; (8) "Earnings Trends"; and (9) "Occupation Profiles." Findings indicate that very significant changes have occurred over the target time period. Artists have become more geographically diverse over the two decades. Growth among artist occupations has substantially outdistanced that for the labor force as a whole and for all professional occupations, of which artists account for about one-tenth. Incomes for artists, however, lag significantly behind those for other professionals of equal education and training. The report includes extensive tables and graphs of statistical information. (MM)

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ED 408 202

Trends in Artist Occupations: 1970-1990

Diane C. Ellis and John C. Beresford

SO 027 095

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Research Division Report #29

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Prepared by

Diane C. Ellis and John C. Beresford

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FOREWORD

Since its inception in 1975, the Research Division of the National Endowment for the Arts has been conducting research on artist occupations. Understanding that no one database will address all the issues or concerns that arts policymakers, administrators and researchers will have about artists, the Division has sought a balance in its research between several major types of databases:

- Primary data collection efforts concerning specific artist groups using surveys designed with significant input from the Research Division, the relevant Arts Endowment program, and the field. The most recent example is a study of choreographers in four cities in which mail questionnaire responses from over 500 choreographers were tabulated and analyzed (Research Report #28, *Dancemakers*).
- Surveys of memberships of artist organizations such as unions, service organizations, etc. Analysis of these data are presented in several Research Division Reports such as Research Division Report #3, *Understanding the Employment of Actors*, and Research Division Report #11, *Conditions and Needs of the Professional American Theatre*. These data are also reported in the Division's *Sourcebook of Arts Statistics* (1987, 1989, and 1992 addendum).
- Tabulation and analysis of secondary data collected by statistical agencies of the Federal government such as the Census Bureau. The Research Division, for example, has sponsored the creation of artist extract files derived from each of the last three decennial censuses (1970, 1980, and 1990) as well as reports analyzing geographic, demographic, and socioeconomic changes over the past two decades (Research Reports #12, #16, #19).

Each database type has its advantages and disadvantages. **Primary data collection** efforts on artist occupations such as the Division's surveys of crafts artists, painters and sculptors, or choreographers, offer the following advantages:

1) The method used to define the artist group can be specifically tailored to the project, such as identifying artists by where they sell or perform their work.
2) Similarly, the questionnaire can be designed to collect only the information most critical to the particular group/subject under study.

The disadvantages of primary data collection efforts include:

1) Substantial amounts of time and money are required for the data collection itself.
2) For cost reasons, data are typically collected for only a limited number of geographic locations and, thus, national estimates are not possible.
3) These studies are often done on a one-time-only basis and, thus, trend analysis is not possible.

In comparison, **membership surveys** such as those conducted by unions or service organizations have the following advantages:

1) Depending on the size of the organization and its membership, the survey can represent a very significant number of artists.
2) The content of the questionnaire is often detailed and includes many issues relevant to the study of the artist labor force.

The disadvantages of this type of data set are:

1) Because the results represent a unique universe of members, they are not comparable to other occupations or other studies that cover different groups or universes of artists.
2) The accessibility of the data may be limited for researchers outside the organization that collected the data, since it was not collected by a public agency.

The **Federal databases** have these advantages:

1) Provide national estimates for artist occupations which are consistent with and directly comparable to data for other occupations.
2) Trend data is available because of the regular intervals of collection.
3) Inexpensive to obtain relative to primary data collection because the cost of data collection is borne by individual Federal statistical agencies.
4) Generally, sample sizes are larger than for individual artist group surveys and, thus, permit a more detailed analysis of survey results.

This source, however, has the following disadvantages:

1) Federal surveys such as the decennial census ask only about the primary (one in which they work the most hours) occupation of the respondent; therefore, artists who work more hours in another job are counted as employed in that occupation and not their arts occupation.
2) Limited utility in addressing arts-related issues because the survey instrument is not designed to elicit information specific to artists such as income from artistic activity or working conditions of artists.

The Research Division has sponsored the preparation of a report entitled, "Using the 1990 Census Artist Extract Files of the National Endowment for the Arts," to assist potential researchers in understanding the contents of the artist extract data files and the research and analysis using the data that has been reported on to date. Copies can be obtained through contacting the Research Division of the National Endowment for the Arts (1100 Pennsylvania Avenue, NW, Room 511, Washington, DC 20506).

This trend report on decennial census statistics continues these efforts to make the results of the largest of the Federal databases on artists available to arts administrators, policymakers, and researchers. The 1990 census occupational statistics became publicly available in the form of the Public Use Microdata sample files in June of 1993.

This report examines a variety of characteristics of the artist population in 1990 and compares them to the 1980 and 1970 census results. Some very significant changes have occurred over that time period. Artists have become more geographically diverse over the two decades. As the report notes, growth among artist occupations has substantially outdistanced that for the labor force as a whole and for all professional occupations, of which artists account for about one-tenth. Incomes for artists, however, lag significantly behind those for other professionals of equivalent education and training.

Clearly, the decennial census information cannot answer the full breadth of questions or issues concerning artists, but when examined in the context of other databases such as the more specialized surveys of specific groups of artists or membership organization surveys, a more complete picture of the artist population begins to emerge.

TOM BRADSHAW
DIRECTOR, RESEARCH DIVISION

Artist Occupational Data

Recording and measuring demographic trends require researchers to label, categorize, and summarize to such an extent that the diversity and creativity of the group under study is sometimes missing in the results. Before the numbers are presented, it is useful to examine these artist labels to better understand the people who are the subject of this report.

The data presented here are from large samples of the 1970, 1980, and 1990 U.S. Censuses of Population and Housing. Persons in the samples answered questions on occupation. To be classified as an artist in the census, the person's most recent job at which they worked the most hours would have had to be an artist job. In effect, the data presented here are about people whose primary occupation was in the arts when they responded to the census.

When people fill out the census sample questionnaire, they give their own occupation description. Hundreds of occupation descriptions provided by artists are classified into broad occupational titles by the Census Bureau. Eleven of these titles were selected by the National Endowment for the Arts for this study. They are shown in the box at the right.

Designers account for more than one-third of the artists in the eleven occupations. Some of the nearly 100 detailed occupations included for designers are: art director, clothes designer, color consultant, merchandise displayer, floral decorator, graphic designer, industrial designer, interior designer, set designer, window dresser, and many others. The author occupation, which grew considerably in the last decade, includes people who are fiction writers, lyricists, playwrights, poets, script writers, speech writers, humorists, and many others. The musician/composer occupation ranges from band directors to bell ringers. The category of painters, sculptors, craft-artists and artist printmakers covers a broad range of visual artists in over 50 occupations.

The 1990 and 1980 censuses used the same classification system for occupations. In 1970 artists were defined in a similar manner but with somewhat different results. These differences were removed in a special reclassification study made by the Census Bureau in 1984. In it, the 1970 occupations match the 1980 and 1990 definitions.

The data summarized in this report and its appendixes are estimates based on samples from the census. In the census some people are missed. Some people leave items blank. Sometimes errors are made when occupation is coded or when data are entered into computers for processing. The census samples have these errors and also have errors that result from the use of a sample instead of a full census. The estimates in this report contain any errors present in the census sample data.

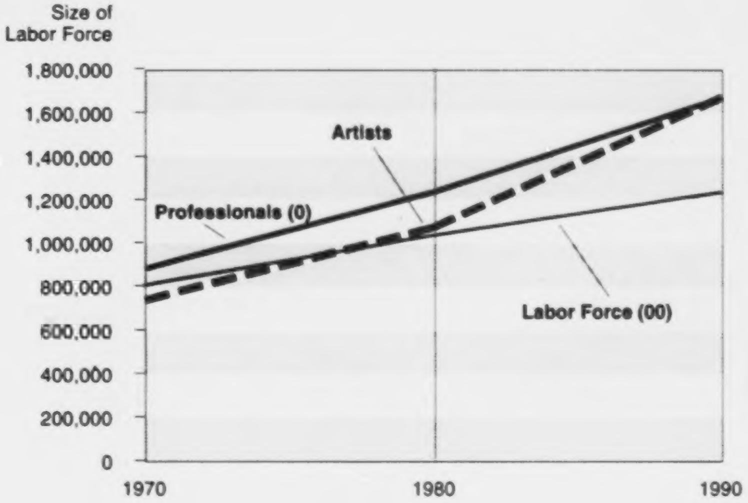
There is more information on data sources, universes, and sampling error in Appendix II, Technical Issues.

Artist Occupations Selected for Study

Actors and Directors
Announcers
Architects
Authors
Dancers
Designers
Musicians and Composers
Painters, Sculptors, Craft-Artists, and Artist Printmakers
Photographers
Teachers of Art, Drama and Music in Higher Education
Artists, Performers, and Related Workers not elsewhere classified

Growth in the Artist Work Force

The 1990 U.S. census counted 1,671,278 artists, an increase of 54% since 1980 and an increase of 127% since 1970. In the twenty years between 1970 and 1990 the percentage increase for artists (127%) was greater than for all professionals (89%). (Professionals include a range of specialty occupations such as engineers, lawyers, scientists, health professionals, and teachers, as well as artists.) The percentage increase for artists was also much greater than the increase for the entire labor force (55%). The chart below shows the number of artists, 1970 to 1990, superimposed on a trend line for all professionals and the total labor force. The number of professionals is divided by 10 and the number in the labor force is divided by 100 to better illustrate the comparisons.



Percent Increases 1970 - 1990

Artists
127%

Professional Occupations
89%

Labor Force
55%

During the 1970 to 1980 decade artist occupations grew 47%. They increased 54% in the following decade. Artists now make up a larger proportion of the U.S. labor force than they did in 1970, representing under one percent of the U.S. labor force in 1970 and increasing to 1.4% by 1990.

Designers continue to be the largest artist occupation with over a half million people. They account for over one-third of all artists. Teachers of art, drama and music in higher education were the only artist occupation to show a decrease in numbers from 1980 to 1990. However, there was an increase from 1980 to 1990 in the numbers of teachers in higher education who did not report their academic specialty. This group probably includes some who could have reported their specialty as teacher of art, drama, and music. (See Appendix II, Technical Issues, for details.)

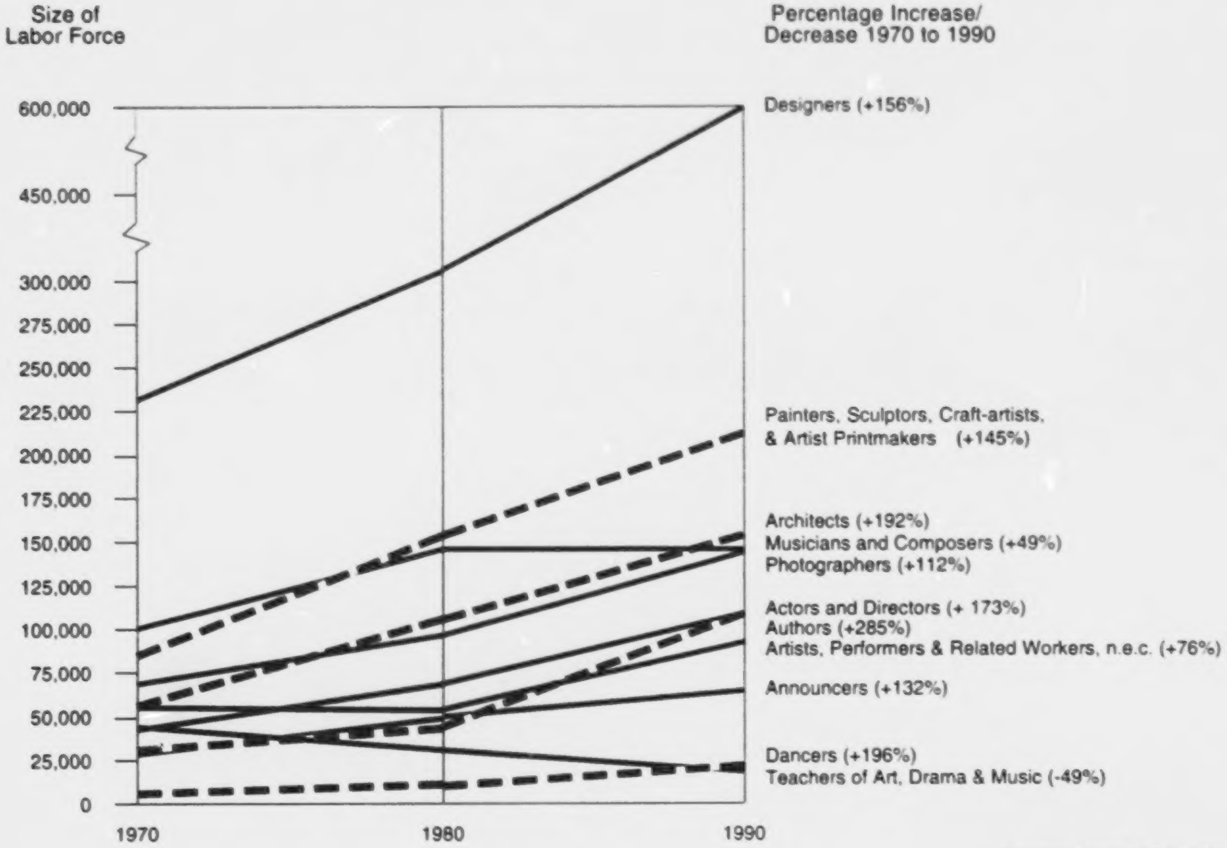
Size of Artist Occupations in 1990

	Number	%
Designers	596,802	35.7
Painters, Sculptors, Craft-artists & Artist Printmakers	212,762	12.7
Architects	156,874	9.4
Musicians & Composers	148,020	8.9
Photographers	143,520	8.6
Actors & Directors	109,573	6.5
Authors	106,730	6.4
Artists not elsewhere classified	93,421	5.6
Announcers	60,270	3.6
Dancers	21,913	1.3
Teachers of Art, Drama and Music	21,393	1.3
Total Artists	1,671,278	100.0

Source: Appendix Table 20

The major factor in the dramatic increase in the growth of artists is the designer occupation. Designers increased 76%, more than a quarter million people, during the 1980-90 decade. It was authors, however, who had the highest growth rate of any artist occupation between 1980 and 1990, more than doubling in size to a population of 106,730. Between 1970 and 1990, authors grew five times faster than the U.S. labor force.

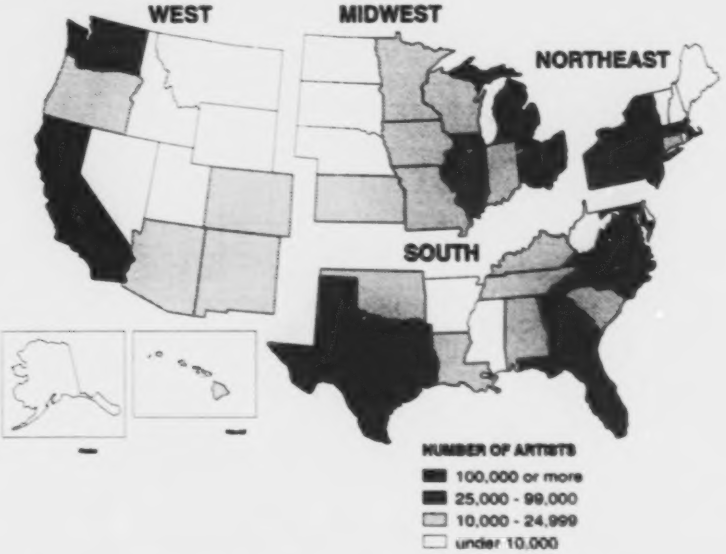
Looking over the 20-year period of 1970 to 1990, authors, dancers, architects and actors/directors had the highest percentage growth, as shown in the chart below. Growth in the author occupation was particularly strong during the 1980-90 period. Musicians and composers grew a relatively strong 41% during the 1970's, but stopped growing during the 1980's. Teachers of art, drama and music were the only other artist occupation that failed to keep pace with labor force growth, losing 32% of their workforce in the 1970's and 25% in the 1980's. By 1990 there were only half the number of art, drama and music teachers there were in 1970.



Source: Appendix Table 22

Geographic Trends

Regions. Over the last two decades there have been changes in where artists live and practice their art. Like the rest of the U.S. labor force, the trend among artists has been larger population growth in the South and West regions of the country than in the Midwest and Northeast. In 1970 the two northern regions had over half of all artists, but by 1990 the South and West claimed 55%.

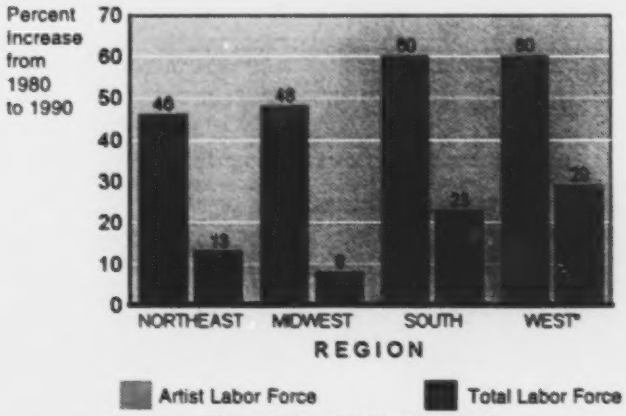


In 1990 California and New York dominate all states in numbers of artists. Over one-fourth of all artists live in those two states.

The South and West regions have 55% of the nation's artists.

Source: Appendix Table 13

The percentage growth of artists is much higher than the percentage growth of the labor force in all regions. The greatest disparity is in the Midwest, where artist occupations grew by 48% between 1980 and 1990 while the total labor force grew by only 8%. The chart below shows this disparity in the four regions. The West and South had the highest growth rates for artists at 60%. Their total labor force grew at less than half that rate. (Appendix Table 13.)



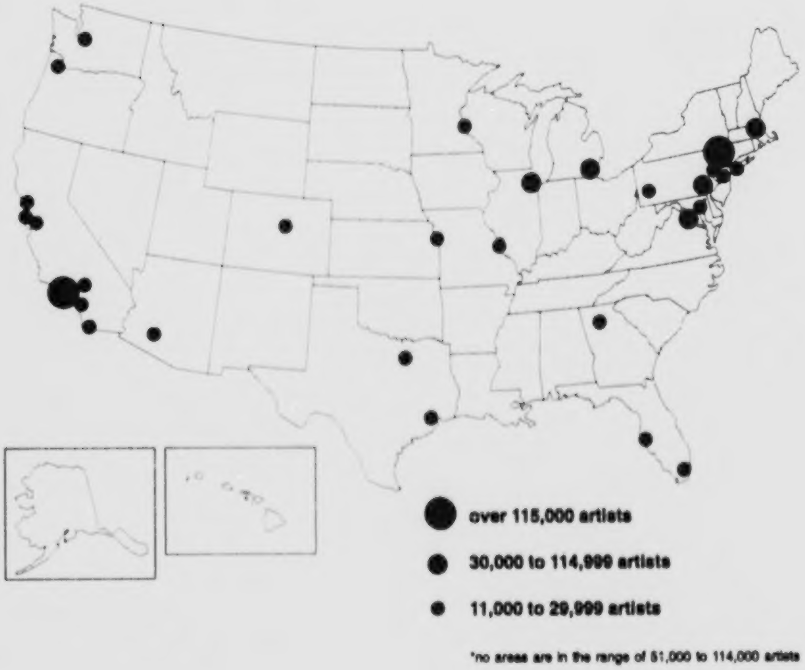
*West region includes Alaska and Hawaii

Since 1970 the artist labor force has grown more than the total labor force in all regions.

Source: Appendix Table 13

Metropolitan Areas. Metropolitan areas have a disproportionate share of artists. These highly populated areas contain 79% of the nation's labor force and 88% of the nation's artists. They have over 90 percent of the nation's actors/directors, architects, and dancers. (Appendix Table 14.)

Less than 10% of the nation's metropolitan areas have 50% of the nation's artists. They total 30 metropolitan areas and their respective artist population sizes are shown in the map below. New York City and Los Angeles-Long Beach, California lead all metropolitan areas in total numbers of artists. These 30 metropolitan areas are identified in Appendix Table 16.


over 115,000 artists
30,000 to 114,999 artists
11,000 to 29,999 artists
*no areas are in the range of 51,000 to 114,000 artists

Half of All Artists in the United States live in 30 metropolitan areas.

Source: Appendix Table 16

Western metropolitan areas as a group have the highest percentage of artists in their labor force. (Appendix Table 14.) Santa Fe, New Mexico leads all other metropolitan areas with the highest percentage of artists for its labor force size. Over 3% of its labor force are in artist occupations. It is followed by Norwalk, Connecticut; New York, New York; San Francisco, California; Stamford, Connecticut; Los Angeles-Long Beach, California; Boulder-Longmont, Colorado; Sarasota, Florida; Santa Cruz, California; and Los Angeles-Anaheim-Riverside, California. (Appendix Table 17.)

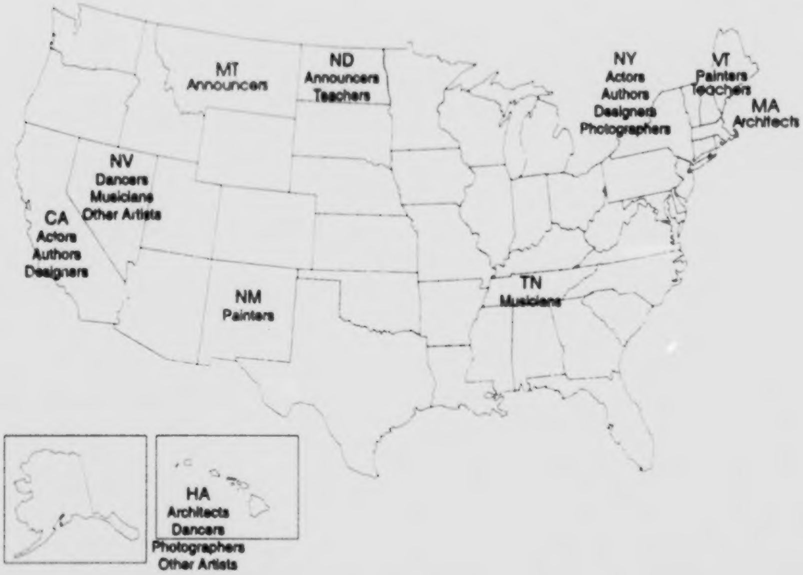
Santa Fe has a higher percentage of the painters/sculptors/craft-artists/printmakers occupation for its labor force size than any other metropolitan area. It also has a high proportion of authors. Norwalk and Stamford have high proportions of designers in their labor forces. (Appendix Table 18.)

States. The top ten ranked states for total numbers of artists are: California, New York, Texas, Florida, Illinois, Pennsylvania, New Jersey, Ohio, Michigan, and Massachusetts. Florida and Texas have moved up in rank among the top ten over the 1970 to 1990 period. Over half of the artists in any occupation live in the top three to ten states.

Obviously if there is a large labor force in a state, then the size of its artists labor force is also likely to be large. To better understand how well artists are represented in a particular state, it is useful to examine the percentage of artists within a state's labor force. Although California leads in total numbers of artists with over 285,000 in 1990, it is New York state that has the highest percentage of artists in its labor force. More than 2% of New York's labor force work in artist occupations. California is second with 1.92%. The other top ten states in proportion of artists in their labor forces are Hawaii, Massachusetts, Colorado, Connecticut, Washington, New Mexico, Vermont, and Nevada. (Appendix Table 1.)

Between 1980 and 1990 Massachusetts moved from 11th to 4th place in the percentage rankings. Connecticut, Vermont, Maine and New Hampshire also moved up significantly in the rankings. Nevada dropped from 4th to 10th place; Alaska dropped from 9th to 28th. West Virginia remained in 50th place in both 1980 and 1990 with one artist for every 144 workers. By comparison, New York state has one artist for every 49 workers. Much of these differences are the result of the largest artist occupation — designers — concentrated in New York and California. Twenty-six percent of all designers live in these two states. (Appendix Table 7.)

The map below shows the states where specific artist occupations have the highest or second highest percentages in state labor forces.


MT
Announcers
ND
Announcers
Teachers
NY
Actors
Authors
Designers
Photographers
VT
Painters
Teachers
MA
Architects
NV
Dancers
Musicians
Other Artists
CA
Actors
Authors
Designers
NM
Painters
TN
Musicians
HA
Architects
Dancers
Photographers
Other Artists

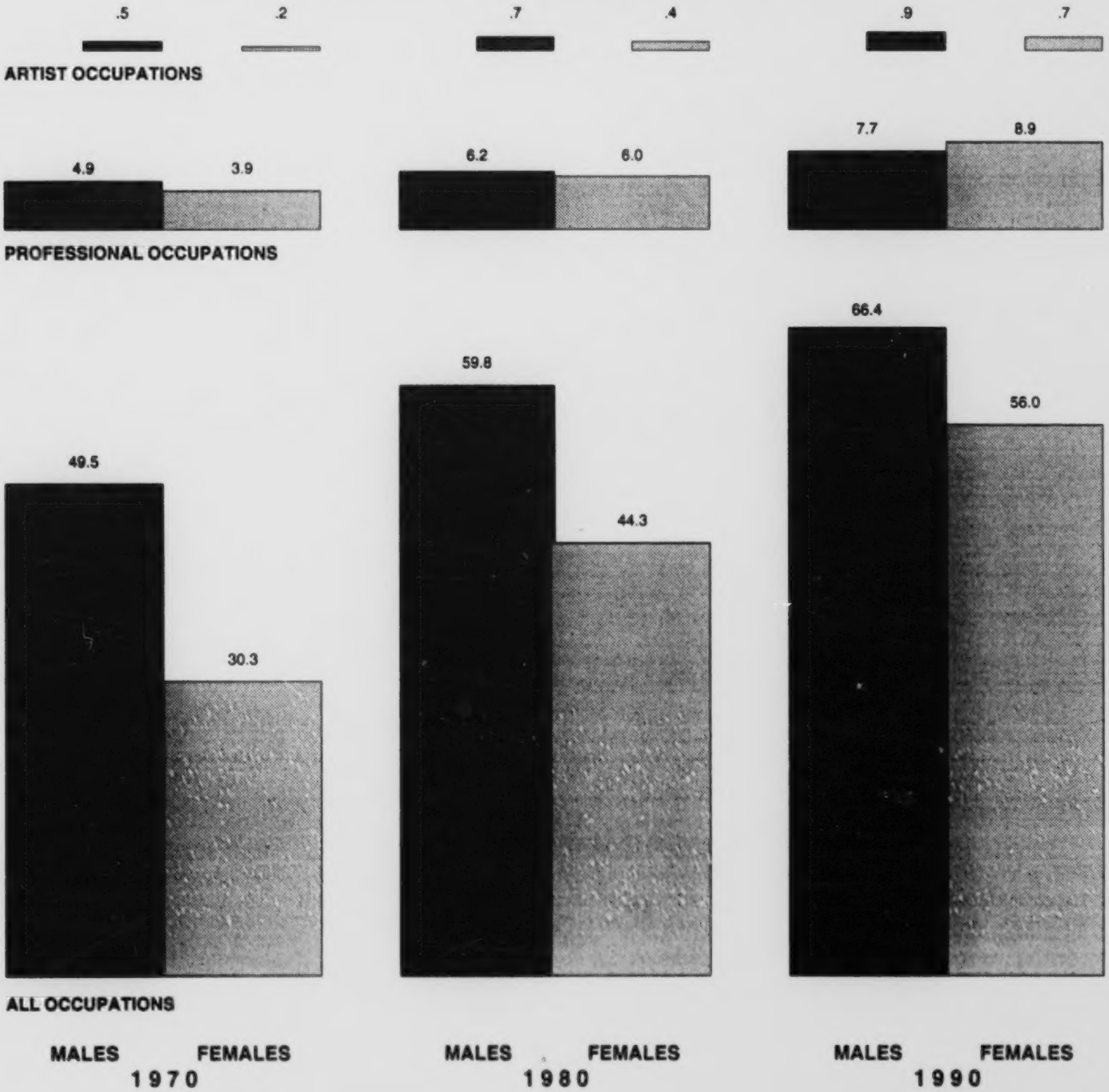
Among all the states, New York has the highest percentage of artists in its labor force. Other states have higher percentages for specific artist occupations.

Source: Appendix Tables 1-11

Demographic Trends

This section describes trends in female and minority composition of artist occupations, age, education, labor force status, and earnings. The table below shows the relative size of the artist population compared to all professional occupations and the labor force. (See definition of "labor force" in Appendix, Technical Issues.)

Comparative Number of Persons in Artist Occupations, Professional Occupations, and All Occupations, by Sex, 1970, 1980 and 1990 (in millions)

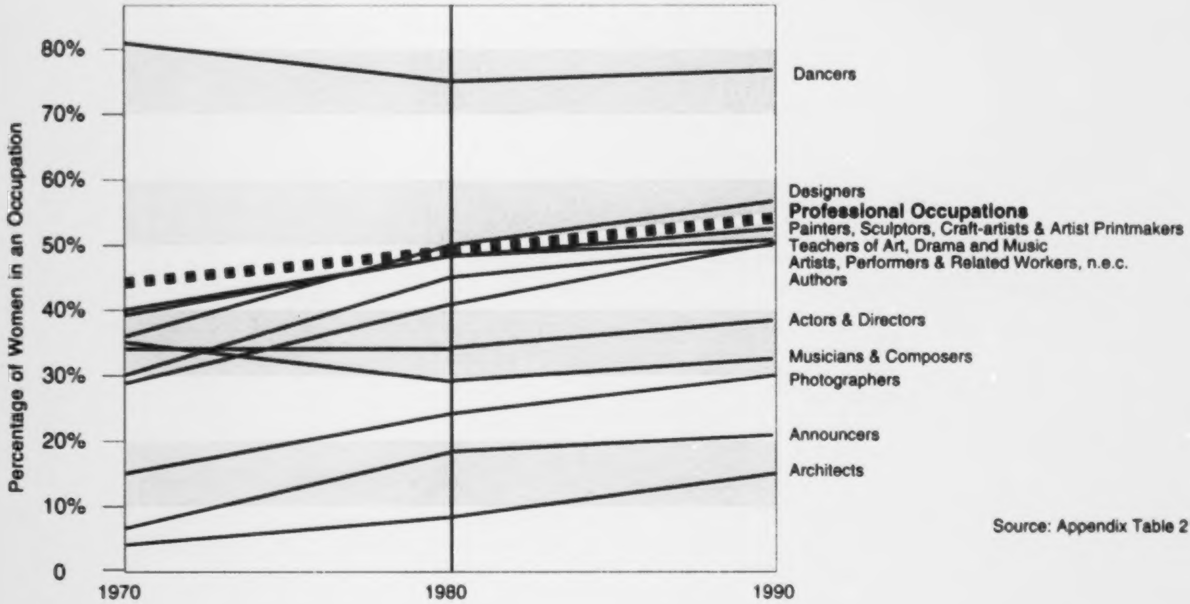


Source: Appendix Tables 13 and 14

Trends among Women and Minority Artists

There were large gains in the numbers of women artists during the 1970 to 1990 period. While women made up only 31% of artists in 1970, by 1990 they were 44%, with over 740,000 women identified in artist occupations. Numbers of men and women artists grew impressively during the period, but the percentage increase for women was more than double that of men.

Despite these gains, women artists as a group are not as well represented in their field as their counterparts in all professional occupations, which are now 54% female and 46% male. The graph below illustrates changes in percent of women in artist occupations, compared with professional occupations, from 1970 to 1990.



Source: Appendix Table 21

Black artists continue to be underrepresented in the artist labor force. Blacks make up 4.6% of all artists, compared with 7.4% in all professional occupations, and 10.4% in the total labor force. Although the number of Black artists increased by 63% during the 1980-90 decade, their proportion of the artist labor force showed little change during this period.

Hispanic artists make up 5.5% of artists, which is higher than their 4% participation in all professional occupations, but lower than their 8% participation in the total labor force. The proportion of Hispanics among artists increased between 1980 and 1990.

Artists of other minority races make up nearly 6% of the artist labor force, which is an increase over 1980, and higher than their participation in all professional occupations.

Growth in Numbers of Artists by Race and Hispanic Origin from 1980 to 1990

	Number		
	1980	1990	% growth
BLACK	47,212	76,777	62.6%
WHITE	997,696	1,499,635	50.3%
OTHER RACES	40,685	94,865	133.2%
HISPANIC	41,840	91,927	119.7%

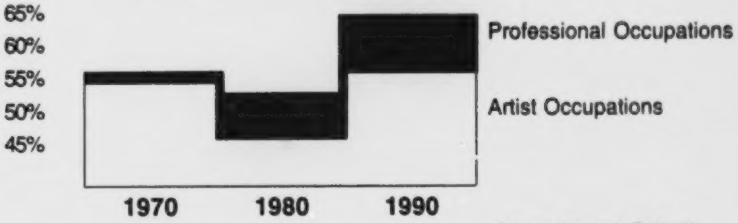
Source: Appendix Tables 20 and 21

Age Trends

The median age of artists was 36.6 years in 1990. This is similar to the whole labor force (36.7 years) but younger than all professionals (40.2 years). (The post World War II generation, the baby boomers, are such a large fraction of the labor force that as they grow older, the median age of the labor force increases.) Artists increased their median age by 3.2 years from 33.4 in 1980 to 36.6 in 1990. During this period the median age of the labor force increased by only 1.6 years.

As a group, artists are younger than people in other professional occupations. Dancers and announcers are a lot younger. The charts below show these age relationships.

Percent of Population Age 35 & Over



Source: Appendix Table 23

Authors and teachers are the oldest artists, with median ages around 42 years. The youngest artists are dancers, averaging 26.3 years of age. Between 80% and 85% of dancers are under age 35. This occupation is also overwhelmingly female (about 80%).

Announcers are the next youngest, averaging just over 30 years of age. Two-thirds of all announcers are under age 35. The announcer occupation is overwhelmingly male (about 80%).

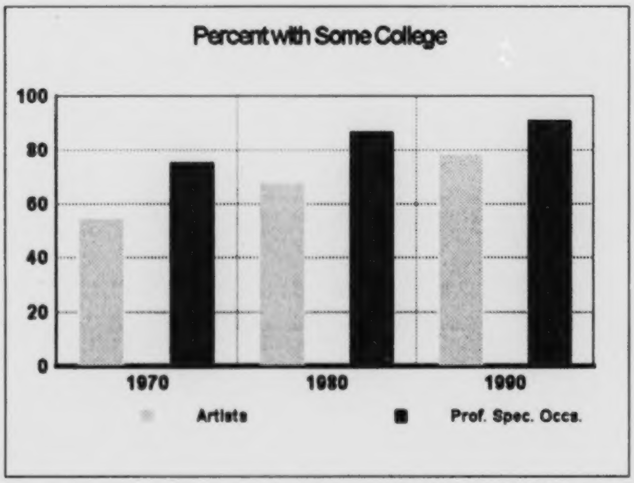
There is little difference in ages between male and female artists overall, with males averaging about 37 years of age and females averaging 36 in 1990. This is similar to current trends in other occupations. Only two artist occupations have substantial age differences between men and women. Among architects, there is a six-year age gap — men average 39 and women average 33. Musicians and composers are one of the few artist occupations where women are older with an average age of 41 compared to 35 for men.

	Median Ages
26.3	Dancers
30.5	Announcers
35.3	Artists not elsewhere classified
35.6	Actors & Directors
35.6	Photographers
36.3	Musicians & Composers
36.3	Designers
37.6	Architects
38.0	Painters, Sculptors, Craft-artists & Artist Printmakers
41.9	Teachers of Art, Drama and Music
42.2	Authors
36.6	All Artists
39.2	All Professional Occupations
36.7	Total Labor Force

Source: Appendix Table 26

Education Trends

In 1990, 79% of all artists had attended college. This is up considerably from 1970 when only 55% had some college. However, most artists are still not as well educated as all professionals, over 91% of whom had some college in 1990. Nonetheless, a considerably higher percentage of artists attended some college than the 52% of the labor force as a whole who attended some college. Teachers, architects, and authors are artist occupations whose members average over 90% with some college. Dancers are least likely of all artists to attend college, with less than half attending.



Source: Appendix Table 24

Full Time Work Last Year

The vast majority of artists said that they worked the year before the census. This ranged from 85% for female dancers to 97% for male architects. There is more variation among artists in the percentage who worked full time (35 or more hours per week) and full year (50 or more weeks). For example, architects tend to have full time work readily available. In 1990 nearly 72% of them reported working full time, compared to 17% full time for dancers. Overall, slightly less than half (46%) of all artists reported in the 1990 census that they worked full time the year before, a figure slightly below that for all professional occupations at 49%. The table at right shows these differences.

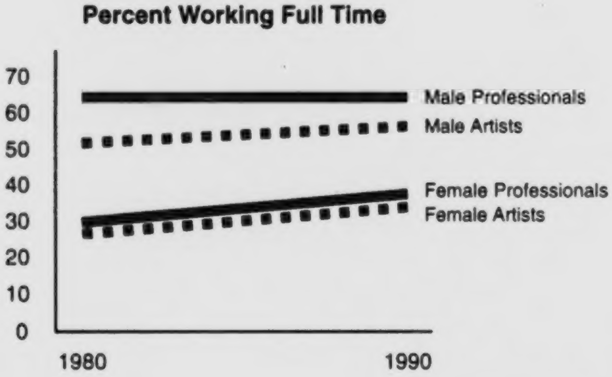
Females in most occupations are less likely than males to work full time. Among artists, 35% of females work full time, compared to 56% of males. The male and female differences for each artist occupation are shown in Appendix Tables 27 and 28.

Percent Working Full Time

	1980	1990	Change
Actors & Directors	41.0	45.6	+ 4.6%
Announcers	43.7	43.8	+ 0.1%
Architects	68.8	71.5	+ 2.7%
Authors	34.7	39.5	+ 4.8%
Dancers	17.3	17.0	- 0.3%
Designers	50.0	50.9	+ 0.9%
Musicians & Composers	16.4	23.9	+ 7.5%
Painters, Sculptors, Craft-artists & Artist Printmakers	43.2	44.3	+ 1.1%
Photographers	48.6	50.2	+ 1.6%
Teachers of Art, Drama and Music	24.4	22.7	- 1.7%
Other Artists	31.7	30.7	- 1.0%
Total Artists	42.8	46.0	+ 3.2%
Male Artists	52.9	55.7	+ 2.8%
Female Artists	28.7	35.0	+ 6.3%
Total Professionals	46.3	49.3	+ 3.0%
Male Professionals	64.0	63.8	- 0.2%
Female Professionals	30.3	37.5	+ 7.2%

Source: Appendix Table 27

What is more interesting in these data is the degree to which full time work for artists increased over the decade 1980-1990. Musicians and composers were much more likely in 1990 to be working full time than they were in 1980, although less than one in four now has full time work. Authors, architects, and actors/directors were also better off in 1990 for full time work than they were in 1980. Overall, artists had a 3% increase in full time employment between 1980 and 1990, slightly better than the increase for all professional occupations. Female artists had a 6% increase in full time employment, compared to 3% for male artists.



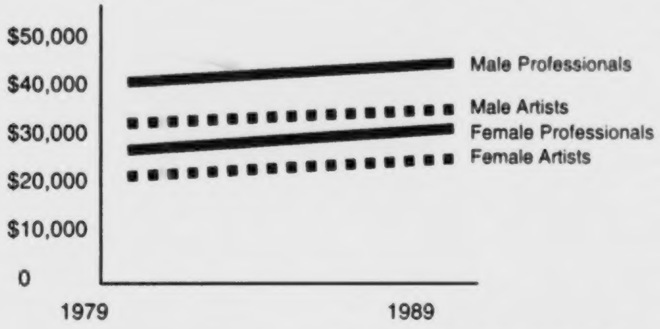
Source: Appendix Table 28

Artists are more likely than other types of professionals to be self-employed. Almost one-third of male and female artists are self-employed, compared to 15% of male and 6% of female professionals. The artist occupations vary on the extent of self-employment. About 60% of male and female authors are self-employed. Most of the other artist occupations have between 20% and 50% self-employed.

Earnings Trends

During the decade between 1980 and 1990 artist earnings generally showed gains when adjusted for inflation. As a group, artists had earnings gains of about 11% for men and 20% for women. These gains were similar in scale to those for all professional occupations, as shown in the graph below. When looking at individual artist occupations, however, it is apparent that only a few occupations did very well, while the majority of artist occupations did not experience such substantial gains.

Median Earnings for Full-time Artists and Professionals, 1979 and 1989



Source: Appendix Table 29

Authors had the highest gains between 1979 and 1989. Even when adjusted for inflation, authors' median earnings grew by 31% for males and by 41% for females. Musicians and composers also did well during the decade, even though their median earnings continue to be among the lowest in the arts. Median earnings for musicians and composers grew by 27% for females and by 11% for males. Female designers, actors/directors, announcers, and architects also had substantial earnings increases. The artist occupations that had none or negative income gains were in the categories of male actors/directors, male painters/sculptors/craft-artists/printmakers, and female teachers. Data for dancers are not presented here because there are too few cases for statistical reliability.

The earnings data were compiled for full year, full-time workers. This controls for the amount of work performed, so that data for males and females and the various occupations are comparable. However, it also reduces significantly the number of artists included because of the small proportions working full-time in several of the occupations, (see page 16).*

Earnings are the sum of wage and salary earnings, self-employment earnings, and farm earnings. Persons with zero earnings are not included; to have earnings, an artist must have worked during the reference year. For these reasons, the total number of artists with earnings is different from the total artist labor force. Earnings do not include interest, dividends, royalties, trust fund payments, or rent. They also do not include income from public assistance, retirement, disability, Society Security, unemployment compensation, and certain other sources.

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*The data are further limited to artists in households, to allow comparison with the household income data that follow. Artists in households account for about 99% of all artists.

The table at right shows the most recent (1989) earnings data for artists, rank-ordered by occupations with the highest earnings. Architects had the highest median earnings of all the artist occupations at $40,110 per year for males and $29,451 for females. As shown in the table, artists in most occupations earn considerably less than the average for all professional workers. In 1989 the average artist had earnings of $31,124 for men and $20,825 for women.

Many people think of artists in terms of the few who become rich and famous. This stereotype of artists was examined to see whether any occupations have a high percentage of people in high income brackets. The highest bracket available in these data is $100,000 or more median earnings per year. As might be expected, the actor/director occupation has the highest percentage in this group — 8% of male and 4% of female actors/directors earn $100,000 or more. Teachers and dancers were least likely to be in this income bracket.

Median Earnings of Full-time Artists by Occupation and Sex, 1989*

MALES	
Architects	$40,110
All Professional Occupations	**40,095**
Teachers of Art, Drama and Music	34,982
Authors	33,837
Designers	32,549
Actors & Directors	32,077
Photographers	25,456
Other Artists	25,310
Painters, Sculptors, Craft-artists & Artist Printmakers	24,320
Musicians & Composers	22,988
Announcers	21,424
Dancers	16,623
All Male Artists	**31,124**
FEMALES	
Architects	$29,451
Actors & Directors	28,032
All Professional Occupations	**27,580**
Teachers of Art, Drama and Music	25,316
Authors	25,101
Designers	20,394
Announcers	19,325
Other Artists	19,193
Painters, Sculptors, Craft-artists & Artist Printmakers	18,762
Musicians & Composers	18,653
Photographers	17,381
Dancers	15,623
All Female Artists	**20,825**

* For percent of each occupation working full time, see page 16.
Source: Appendix Table 29

Male-Female Differences

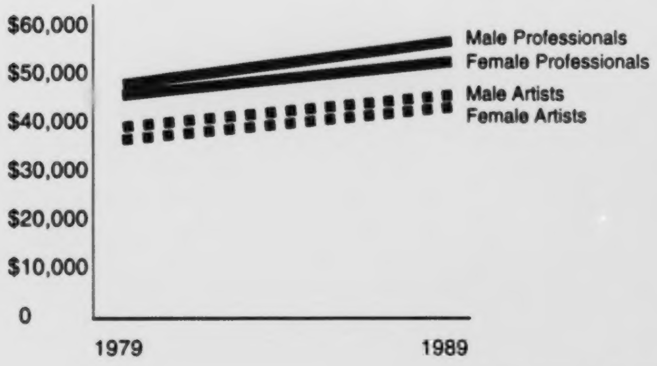
Although women made substantial earnings gains in certain artist occupations during the 1980's, the overall figures show little progress in equaling the earnings of male artists. In 1979, women artists who worked full time, full year earned 62% of male artists. Ten years later in 1989 this increased only slightly to 67% of male earnings. This situation is nearly identical to the general labor force and to all professional occupations, where women also earn about two-thirds of what men earn.

The designer occupation is largely responsible for these discrepancies. This occupation is by far the largest of all artist occupations and has the lowest ratio of female-male earnings. Women designers earn only 63% of their male counterparts. The radio-television announcer occupation and the actor/director occupation show the greatest equity for women, with earnings at about 90% of male earnings.

Household Income

Household income data show the full extent of resources that support artists. These data clearly show that differences among artist occupations and between male and female artists diminish for household income. The exception is the dancer occupation which is largely female and has median household income well below the norm for artists. The large male-female differences in individual earnings do not repeat themselves for household income. Indeed, median household income for female artists is higher than that for male artists in several occupations (see Appendix Table 33c).

During the 1980's artist household income showed gains of about 15% when adjusted for inflation. These gains were nearly identical to those for all professional occupation households, as shown in the graph on the next page. As with individual earnings, author households had the largest gains. Announcer and dancer households had very small gains.



Median Household Income, 1979 and 1989

Source: Appendix Table 33

The table at right shows the most recent (1989) income data for artist households. Median household income is $44,523 per year. In male artist households, the figure is slightly higher at $45,212, while female artist households are $43,626. Architects lived in households with the highest median income of all the artist occupations at $56,773 per year. As seen in the table, most artists live in households with lower incomes than the average for all professional occupations.

Median Household Income by Occupation and Sex of Artist, 1989

MALES	
Architects	$56,952
All Professional Specialty Occupations	**54,701**
Authors	50,710
Actors & Directors	49,087
Designers	47,688
Teachers of Art, Drama and Music	47,500
Photographers	42,338
Other Artists	40,125
Painters, Sculptors, Craft-artists & Artist Printmakers	39,943
Musicians & Composers	34,770
Announcers	34,103
Dancers	32,316
Total Male Artists	**45,212**
FEMALES	
Architects	$55,639
Authors	50,915
All Professional Specialty Occupations	**50,025**
Actors & Directors	49,438
Designers	44,308
Teachers of Art, Drama and Music	43,895
Painters, Sculptors, Craft-artists & Artist Printmakers	42,367
Musicians & Composers	41,099
Other Artists	40,819
Photographers	39,412
Announcers	36,906
Dancers	29,196
All Female Artists	**43,626**

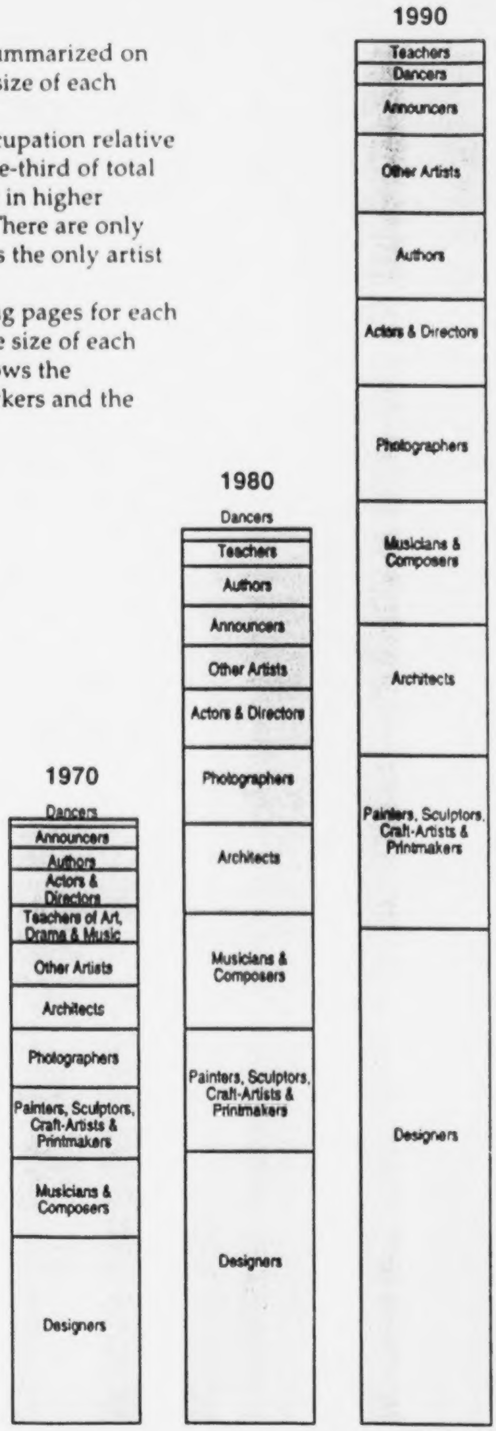
Source: Appendix II, Table 8

Occupation Profiles

Characteristics of the eleven artist occupations are summarized on the following pages. The chart below shows the relative size of each artist occupation for 1970, 1980 and 1990.

The chart illustrates the large size of the designer occupation relative to the other artist groups. By 1990, designers comprise one-third of total artists. The numbers of teachers of art, drama and music in higher education have actually shrunk between 1970 and 1990. There are only half as many teachers in 1990 as there were in 1970. It was the only artist occupation to decrease in size.

The population size chart is repeated on the following pages for each artist occupation to help readers keep in mind the relative size of each artist group. Refer also to the chart on page 13 which shows the proportion of the artist population to all professional workers and the total labor force.



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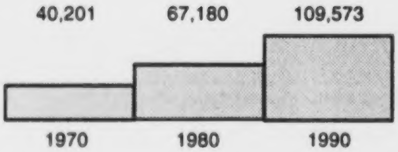
Actors and Directors



High growth. In 1990 there were 109,573 actors and directors counted in the U.S. Census. They represent 6.6% of all artists and .089% of the labor force. The number of actors and directors increased by 63% since 1980. This is a larger percentage increase than the average for all artists.

Women and minorities gaining. In 1990, 38% of actors and directors were women. This compares with 54% women for all professional occupations. However, female actors and directors increased 81% from 1980 to 1990, compared to a 48% increase for professional occupations. Minorities are making gains in the actor/director occupation. Blacks and other races had a greater percentage gain than whites from 1980 to 1990. Minorities now represent about 11% of actors and directors.

Median age in 1990 was 35.6, about the same as the average for artists and younger than professional occupations.

Education increasing. Education levels among actors and directors are increasing. Over 89% have some college.

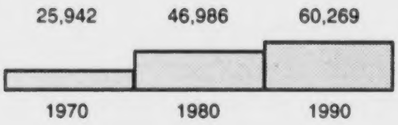
Full year, full time work increasing. Actors and directors are more likely now than in 1980 to be working the full year with full time work. 50% of males and 40% of females work full year and full time. Between 1979 and 1989 female actors and directors increased their full year, full time work from 28% to 40%, the largest net percentage gain in full year, full time among all artists.

High earnings. Actors and directors who are working full year, full time are relatively well paid compared to other artist occupations. In 1989 their median full year, full time earnings were $32,077 for males and $28,032 for females. It is important to remember, however, that over half (54%) of actors and directors worked less than full year, full time. Female actors and directors gained $4,430 in earnings during the 1980's decade, second in gains only to female authors. Median household income for all actors and directors was $49,229 in 1989.

Actors & Directors in 1990

Labor force	109,573
Percent women	38.1%
Percent minority races	10.5%
Median age	35.6
Percent with some college	89%
Percent working full year, full time	46%
Median earnings — males	$32,077
Median earnings — females	$28,032

Announcers



Modest gains in population. Announcers are one of the smallest groups among artist occupations with about 60,000 people in 1990. They represent 3.6% of all artists and .049% of the labor force. Their population increase during the 1980's was a modest 28%.

Mostly male, females making slight gains. In 1990, 79% of announcers were men. This compares with 46% men for all professional occupations and 56% men for all artist occupations.

Minority gains. The announcer occupation has a slightly higher proportion of blacks than professional occupations. Blacks and other races had a greater percentage gain than whites from 1980 to 1990.

Youthful occupation. The average announcer was only 26.9 years old in 1980 and 30.5 years in 1990. This is much younger than the median age for artists which is 36.5 years.

Education increasing. Announcers with some college increased from 62% to 71% during the 1980's. This is still much below the college attendance for all professionals.

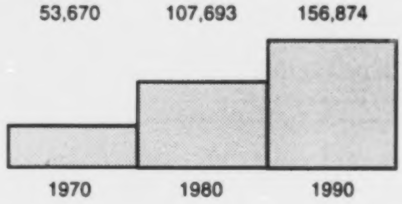
Full time workers unchanged. The percentage of full year, full time workers was about the same in 1979 and 1989 at 46% for males and 35% for females.

Median earnings unchanged for full year, full time males but substantially increased for full year, full time females. Among male announcers, there was almost no change in median earnings from 1979 to 1989 when adjusted for inflation. Male announcers have among the lowest earnings of males in any artist occupation at $21,424. Earnings for female announcers are also relatively low at $19,325, but their earnings increased by 16% over the decade. Median household income for announcers in 1989 was $34,570.

Announcers in 1990

Labor force	60,269
Percent women	20.8%
Percent minority races	12.8%
Median age	30.5
Percent with some college	71%
Percent working full year, full time	44%
Median earnings — males	$21,424
Median earnings — females	$19,325

Architects



High growth rate. Architects were the third largest of the artist occupations in 1990 with 156,874 people, which represents over 9% of the artist labor force. They had a relatively large increase of 46% between 1980 and 1990.

Lowest female percentage. Females were 4% of architects in 1970 and 15% by 1990. The number of female architects more than doubled from 8,950 in 1980 to 23,662 in 1990. The 15% participation by women is still the lowest of all the artist occupations and very low compared to the 45% female participation for all professional occupations in 1990.

Blacks under-represented. Architects have the lowest percentage of blacks of any artist occupation, with less than 3% black in 1990. However, during the decade of the 1980's blacks and other races grew at a faster rate than whites.

Median age for architects is 37.6, slightly above the average for all artists and slightly below the average for all professional occupations.

More educated. Nearly 95% of architects have some college. This is higher than the average for professional specialty occupations and higher than any other artist occupation except for art, drama and music teachers in higher education.

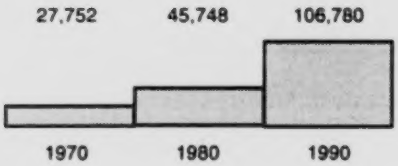
Full time work high. The percent of full year, full time workers is higher than any other artist occupation — 75% for males and 53% for females.

Highest earnings of all full year, full time artists. Median 1989 earnings for architects are higher than any other artist occupation and higher than the average for professional occupations. Males earned $40,110 and females earned $29,451.

Architects in 1990

Labor force	156,874
Percent women	15.1%
Percent minority races	9.5%
Median age	37.6
Percent with some college	95%
Percent working full year, full time	72%
Median earnings — males	$40,110
Median earnings — females	$29,451

Authors



Highest growth rate. During the 1980's there was a surge in people identifying themselves as authors. The population more than doubled to 106,730 in 1990. Authors had the greatest percentage gain in numbers of all the artist occupations. Authors are now 6.4% of artists and .087% of the labor force.

Males and females near parity. Along with the large growth in authors, the occupation evened out on gender lines, so that by 1990 there was about a 50-50 split between males and females, compared to 70% male in 1970.

Modest minority gains. Authors have a relatively low proportion of blacks at 3%. However, blacks and other non-white authors had a greater percentage gain than white authors from 1980 to 1990.

Oldest artists. Authors had the the highest median age of all artists at 42.2 years in 1990.

Education level high. The proportion of authors with some college is high at 94%. This is slightly higher than the proportion for all professional occupations.

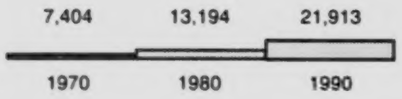
Average proportion of full time workers. Autnors were more likely in 1990 to be working full time, full year than they were in 1980. About 40% are full time, full year. This is about average for artist occupations, but below average for all professional occupations.

Large increasses in earnings. Not only were there more people working as authors, but they made more money in 1989 than they did a decade earlier. Even when adjusted for inflation, median earnings grew by 41% for full year, full time female authors and by 31% for full year, full time male authors. No other artist occupation had such high gains. Women authors earned $25,101 in 1989 and men authors earned $33,837. These figures are still below the medians for all professional occupations. The household income for authors is second highest among artist occupations at $50,798.

Authors in 1990

Labor force	106,730
Percent women	49.5%
Percent minority races	5.6%
Median age	42.2
Percent with some college	94%
Percent working full year, full time	40%
Median earnings — males	$33,837
Median earnings — females	$25,101

Dancers



Population increasing. Dancers have one of the smallest population sizes among artist occupations. The Census counted 21,913 dancers in 1990. They represent 1.3% of all artists and .018% of the labor force. Between 1980 and 1990, the number of dancers increased by 66%. This is above average for artists.

Mostly women and mostly young. The dancer occupation is overwhelmingly female, although the trend is toward more males. In 1970, 81% of dancers were female; by 1990 77% were female. They are the youngest of artists with an extremely young median age of 26 for women and 26.9 for men.

More minorities. Dancers have higher proportions of blacks, other minority races, and Hispanics than other artist occupations. About 15% of dancers are of minority races and more than 7% are Hispanic.

Less education. Dancers are least likely of all artists to have attended college, with 49% reporting in 1990 that they had some college. This compares with 79% for all artists.

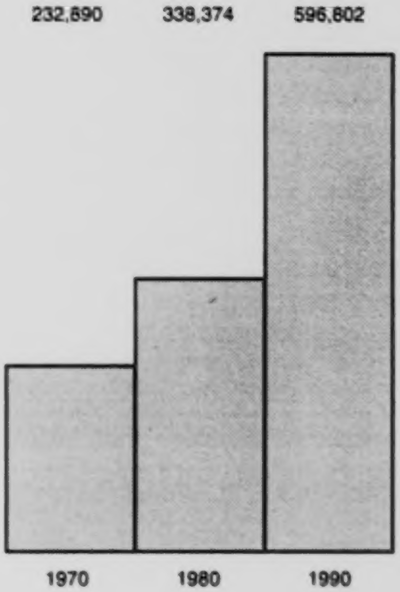
Few full time workers. Dancers have the lowest percentage of full year, full time workers among all artists. Only 17% work full time and this figure has not changed since 1980. Male dancers are only slightly more likely to work full time than females — 20% of males and 16% of females work full time.

Lowest earnings of all artists. The full year, full time earnings of both female and male dancers were substantially below those of other artist occupations. Females averaged $15,623 and males averaged $16,623 in 1989. Households with dancers also have the lowest median income of all artist households. The median income for dancer households in 1989 was $29,920.

Dancers in 1990

Labor force	21,913
Percent women	76.7%
Percent minority races	14.8%
Median age	26.3
Percent with some college	49%
Percent working full year, full time	17%
Median earnings — males	$16,623
Median earnings — females	$15,623

Designers



Largest artist occupation. Designers continue to be the largest artist occupation with 596,802 people in 1990. They are 36% of all artists and about half of one percent of the total U.S. labor force. Designers added more than a quarter million people to their ranks during the 1980's, a relatively high growth of 76%.

Majority female. In 1980 the designer occupation was 50% female, but by 1990 a greater percentage of women came into the occupation and made it 55% female and 45% male.

Minorities under-represented. Designers have a low proportion of blacks at 3.6%. Blacks and other minority races had greater percentage gains than whites from 1980 to 1990.

Age and education similar to all artists. Median age for designers is 36.3. Because designers make up more than one-third of all artists, they tend to represent the norm for all artist categories on age and education. Over 75% of designers had some college in 1990.

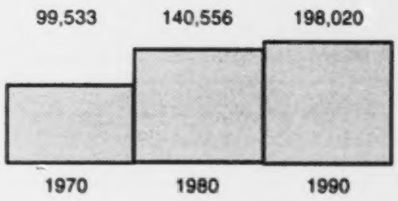
Half Work Full Time. In 1989, 51% of designers worked full year, full time. Male designers were much more likely than female designers to have full employment. Males averaged 67% and females averaged 39%.

Average earnings for full year, full time workers, but women much lower than men. Male designers had median earnings of $32,549 and female designers earned $20,394 in 1989. These are average earnings for artists, but well below the medians for professional occupations. The gap between male and female earnings is the largest of any artist occupation, with women designers earning 63% of their male counterparts. However, male designers had median earnings increase by only 3% between 1979 and 1989, while female designers saw a 20% increase. The increase for men was considerably below that for males in other artist occupations and below professional specialty occupations, but the increase for women was similar to rate increases for women in other occupations. Median income for designer households in 1989 was $45,873.

Designers in 1990

Labor force	596,802
Percent women	55.5%
Percent minority races	9.8%
Median age	36.3
Percent with some college	74%
Percent working full year, full time	51%
Median earnings — males	$32,549
Median earnings — females	$20,394

Musicians and Composers



Slow Growth. Musicians and composers are the fourth largest artist occupation with 148,020 people in 1990. They represent 8.9% of all artists. After growing 41% during the 1970's, the musician/composer occupation slowed its growth during the 1980's, increasing by only 5% between 1980 and 1990.

Female percentage low. Over two-thirds of musicians/composers were men in 1990. Women have actually lost ground in this field since 1970 when they represented 35% of the work force. Their participation dropped to a low of 30% in 1980 but they are now regaining strength and made up 33% of the occupation in 1990.

Strong minority participation. More than 12% of musicians and composers are from minority races and 6.5% are Hispanic. This is higher than most artist occupations and higher than professional occupations. Blacks and other minority races increased their numbers more than whites did from 1980 to 1990.

Substantial aging, females older. The median age for musicians/composers increased from 30.4 to 36.3 from 1980 to 1990. This is one of the few artist occupations where females are older than males. Female musicians/composers are nearly five years older than their male counterparts, with median ages of 40.6 for women and 35.5 for men.

Education increasing. Musician/composer education increases are similar to those for all artists. Over 75% had some college in 1990.

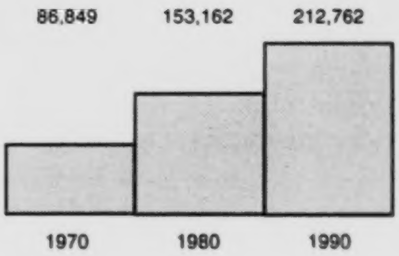
Full time work increasing, but still very low. Musicians and composers were more likely to be working full year, full time in 1990 than 1980, although less than one in four had full year, full time work. Males increased from 20% full time in 1980 to 29% in 1990. Females increased from 8% to 15%.

Good earnings increases but still low. Median earnings grew by 27% for females and 11% for males between 1979 and 1989, but the occupation still has the third lowest earnings of the artist occupations at $22,988 for men and $18,653 for women. Median household income was $36,653.

Musicians and Composers in 1990

Labor force	148,020
Percent women	32.8%
Percent minority races	12.5%
Median age	36.3
Percent with some college	75%
Percent working full year, full time	24%
Median earnings — males	$22,988
Median earnings — females	$18,653

Painters, Sculptors, Craft-Artists and Artist Printmakers



Second largest artist occupation. Painters, sculptors, craft-artists and artist printmakers are the second largest of the artist occupations with 212,762 people in 1990. They make up 12.7% of all artists and .174% of the total labor force. The occupation has had strong growth over the past twenty years. They increased by 39% between 1980 and 1990.

Slightly higher proportion of females. In 1990 about 52.5% of painters were female. This was similar to the percentage for all professional occupations and higher than the 44% for all artists.

Minority gains. Blacks and other minority races made up about 9% of this occupation in 1990, about average among artist occupations. Blacks and other minority races had a greater percentage gain in numbers than whites during the 1980's.

Females slightly older. Painters have a median age of 38 and females are slightly older than males — 38.4 to 37.5.

Education increasing. Education levels for this occupation are similar to those for all artists, with about 80% reporting in 1990 the completion of some college.

Full time work above average. In 1989, 56% of male and 36% of female painters worked full time, full year. Painters are about average among artists on this measure.

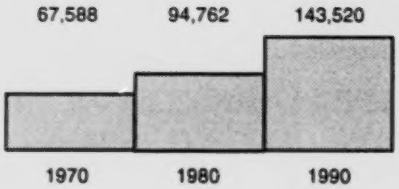
Earnings declined for males. Of all full year - full time artist categories, male or female, only male painters had a decrease in earnings from 1979 to 1989. The decrease of $806 lowered their inflation-adjusted earnings to $24,320 in 1989. Female painters increased median earnings 10% over the decade to $18,762. Both male and female painters have earnings well below the average for artists and professional specialty occupations. The median household income for this occupation in 1989 was $41,159.

Painters, Sculptors, Craft-artists & Artist Printmakers in 1990

Labor force	212,762
Percent women	52.5%
Percent minority races	9.1%
Median age	38.0
Percent with some college	80%
Percent working full year, full time	44%
Median earnings — males	$24,320
Median earnings — females	$18,762

Photographers

A growing occupation. There were 143,520 photographers in 1990, 8.6% of all artists. The number of photographers grew 52% since 1980, which was average for artist occupations but above average for the general labor force.



Mostly male, but female participation growing. In 1990, 30% of photographers were women. This compares with 54% women for all professional occupations and 44% for all artist occupations. The proportion of females in the occupation is growing, however. They made up only 24% of photographers in 1980. The total number of women photographers nearly doubled between 1980 and 1990.

Minority gains. The proportion of photographers from minority races is about average for the artist occupations at 11%. About 6% are of Hispanic backgrounds. Blacks and other minority races had a greater percentage gain than whites from 1980 to 1990.

Average age. The median age for photographers is 35.6, similar to all artists but younger than all professional occupations (39.2).

Average education. The percentage with some college for this occupation is similar to all artists at 74%.

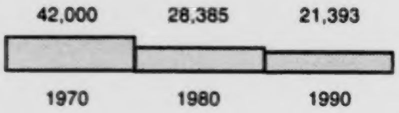
Full time workers above average. About half of all photographers worked full year, full time in 1989. This is slightly higher than the average for all artists.

Low earnings. Male full year, full time photographers had relatively low median earnings in 1989 of $25,456 compared to over $31,000 for all male artists and $40,000 for male professional occupations. Female photographers fared even worse. They had the second lowest earnings of any artist occupation (dancers were lowest) at $17,381, compared to $20,825 for all female artists and $27,580 for all female professionals. Median household income for photographers was $41,257, slightly below the average for artists.

Photographers in 1990

Labor force	143,520
Percent women	30.2%
Percent minority races	11.1%
Median age	35.6
Percent with some college	74%
Percent working full year, full time	50%
Median earnings — males	$25,456
Median earnings — females	$17,381

Teachers of Art, Drama and Music



Decline in labor force. Teachers of art, drama and music in higher education are the only artist occupation to lose population. From 1970 to 1990 the number of teachers was cut in half from 42,000 to 21,000. They now represent 1.3% of all artists. This came at a time when the rest of the artist population had extraordinary growth at 127% over the 20-year period. Both male and female teachers decreased in numbers, with males dropping 58% and females dropping 35%.*

Equal numbers of males and females. There were just over 10,000 art, drama and music teachers of each sex in 1990, compared to about 25,000 males and 17,000 females in 1970.

Low minority representation. Blacks and other minority races made up 8.6% of the teacher occupation in 1990. This is lower than the rate for all artists and for all professionals. However, blacks showed less of a decline in numbers than whites between 1970 and 1990.

Old and aging. Teachers' median age of 41.9 is the oldest of any artist occupation except for authors and it is older than the average for professional occupations (39.2). The median age of teachers increased by 5 years between 1980 and 1990.

Highest education. Not surprising, higher education teachers are the best educated of all artists, with 97% completing some college.

Not full year workers. Less than one in four teachers works full time, full year. The percentage of full time, full year male teachers declined from 34% to 30% between 1979 and 1989, while full time, full year female teachers increased slightly from 15% to 17%.

High earnings. The median earnings in 1989 of both male and female teachers were relatively high at $34,982 and $25,316, respectively. Among male artists, this is the second highest paid occupation (architects rank first). Among female artists, this is the third highest paid occupation (after architects and actors/directors). Median household income of teachers is about average for artists at $45,425.

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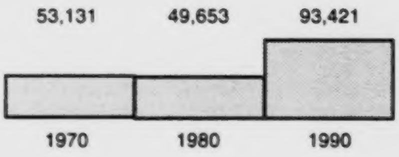
*However, the 25% decline from 1980 to 1990 for art teachers is nearly the same as the 24% decline for all postsecondary teachers who listed their specialty on the census form. See Appendix II, Technical Issues.

Teachers of Art, Drama and Music in 1990

Labor force	21,393
Percent women	50.5%
Percent minority races	8.6%
Median age	41.9
Percent with some college	97%
Percent working full year, full time	23%
Median earnings — males	$34,982
Median earnings — females	$25,316

Artists, Performers and Related Workers not elsewhere classified



Large and eclectic. This miscellaneous category of artists represents 93,421 people for 1990, 5.6% of all artists. The group increased by 88% since 1980, a higher increase than the average for artists. Some of the hundreds of occupations that are put into this group include advertising/layout persons, amusement park entertainers, astrologers, calligraphers, circus performers, comedians, entertainers, language translators, lecturers, magicians, modelers, show girls, sports announcers, and stunt men. In general, this group includes a large number of entertainers and performers who have very unusual or unique jobs in the arts, as well as people working in artistic jobs that are either too vague or too general in description to be classified elsewhere. Despite the problems of census classification, this group represents a sizeable and growing portion of the artist population.

Male and female representation nearly equal. In 1990 there was almost an equal number of males and females in these occupations.

High proportion of minorities. Blacks and people of other minority races make up over 15% of this artist group, the highest minority representation of all the artist occupations. Hispanics make up over 11%, more than double the average for artists.

Average age with females older. The median age is 35.3 with females at 35.7 and males at 34.9. This is slightly younger than all artists.

Education near the average. With 72% of this group completing some college as of 1990, they were just slightly below the average for artists.

Below average full time workers. 31% of these artists worked full time, full year in 1989, which was well below the average for artists (46%). This work level did not change between 1980 and 1990.

Below average earnings. Males in this category who worked full time, full year earned well below the average for artists at $25,310. Female earings of $19,193 were closer to the average for all female artists. The median household income was $40,451, slightly below the average for all artist households.

Artists, Performers, and Related Workers not elsewhere classified in 1990

Labor force	93,421
Percent women	49.8%
Percent minority races	15.2%
Median age	35.3
Percent with some college	72%
Percent working full year, full time	31%
Median earnings — males	$25,310
Median earnings — females	$19,193

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Data Sources.

State and regional trends and metropolitan area distribution in 1990:

Census of Population and Housing, 1990: *Equal Employment Opportunity (EEO) File on CD-ROM,* prepared by the Bureau of the Census, Washington, D.C.: The Bureau, 1992.

U.S. Bureau of the Census, Data User Services Division, *Equal Employment Opportunity Special File,* Machine Readable Data File, Washington D.C.: Bureau of the Census, 1982

U.S. Bureau of the Census, *Detailed Occupation of the Experienced Civilian Labor Force by Sex for the U.S. and Regions: 1980 and 1970,* Washington D.C.: GPO, 1984

U.S. Bureau of the Census, *Characteristics of the Population: Detailed Population Characteristics,* 1980 Vols. 1N-52, Washington, D.C.: GPO, 1984

National demographic trends:

Census of Population and Housing, 1990: Public Use Microdata Samples U.S., prepared by the Bureau of the Census, Washington: The Bureau, 1992

Census of Population and Housing, 1980: *Public Use Microdata Samples U.S.,* prepared by the Bureau of the Census, Washington: The Bureau, 1983

Constance F. Citro and Deirdre A. Gaquin, *Artists in the Workforce: 1950 to 1985,* National Endowment for the Arts, 1987.

See Part II, Technical Issues, for discussion of sources in relation to specific topics.

Universe for Tables 1 to 18:

The universe refers to the kinds of persons counted in the tables. Tables 1-18 include all employed persons and unemployed persons with recent civilian work experience. The Census Bureau calls these persons the "experienced civilian labor force." We label them as the "labor force" for convenience. The 1980 and 1990 "labor force" totals in these tables are slightly smaller than experienced civilian labor force in census printed reports but match the experienced civilian labor force totals in the Census Bureau's Equal Employment Opportunity data files.

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Sampling Error: There are many sources of error in census data. These are discussed in some detail in technical documentation accompanying the data sources and in *Using the Census Professional and Artist Extract Files,* a report available from the National Endowment for the Arts. Sampling error is one part of total census error that can be measured. Sampling errors for many of the tables in Appendix I appear in Appendix II, Technical Issues. The sampling error tables are indicated with the letters "SE" after the table number.

Rounding. Detail may not add to total because of rounding in percentage tables.

Table 1. All artists by state of residence: 1970 to 1990

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	1,671,278	1.365%		53.9%	1,085,693	1.050%		47.3%	736,960	0.923%	
California	285,633	1.924%	2	62.0%	176,321	1.559%	3	62.6%	108,437	1.362%	3
New York	183,360	2.061%	1	32.5%	138,424	1.746%	1	28.3%	107,916	1.458%	2
Texas	96,001	1.180%	26	55.3%	61,802	0.944%	21	76.7%	34,969	0.816%	21
Florida	85,161	1.390%	14	76.3%	48,302	1.152%	10	93.5%	24,960	0.993%	10
Illinois	75,822	1.321%	19	50.2%	50,467	0.932%	22	22.5%	41,211	0.900%	16
Pennsylvania	65,327	1.140%	29	50.7%	43,363	0.817%	32	23.4%	35,137	0.748%	29
New Jersey	56,713	1.390%	13	55.3%	36,510	1.044%	14	27.3%	28,686	0.967%	12
Ohio	56,305	1.076%	33	41.6%	39,768	0.809%	33	22.8%	32,378	0.767%	27
Michigan	55,412	1.235%	21	50.2%	36,888	0.884%	23	24.4%	29,660	0.862%	18
Massachusetts	51,412	1.593%	4	59.6%	32,223	1.150%	11	37.1%	23,499	0.985%	11
Virginia	42,419	1.345%	17	71.2%	24,775	1.009%	16	62.4%	15,253	0.866%	17
Georgia	37,707	1.158%	27	85.5%	20,330	0.826%	29	72.6%	11,776	0.654%	37
Washington	37,296	1.540%	7	62.3%	22,974	1.192%	7	83.0%	12,553	0.941%	13
Maryland	35,686	1.383%	15	70.0%	20,990	1.025%	15	22.5%	17,135	1.080%	5
North Carolina	34,091	1.007%	36	65.8%	20,561	0.750%	38	62.7%	12,640	0.617%	41
Minnesota	31,169	1.353%	16	59.7%	19,512	0.982%	18	50.5%	12,967	0.850%	19
Missouri	28,478	1.136%	31	50.3%	18,951	0.844%	25	33.5%	14,199	0.772%	25
Tennessee	28,202	1.181%	24	59.2%	17,714	0.864%	24	67.0%	10,607	0.698%	33
Wisconsin	27,985	1.117%	32	51.9%	18,429	0.818%	31	38.4%	13,320	0.753%	28
Connecticut	27,453	1.542%	6	59.5%	17,211	1.113%	12	28.4%	13,404	1.034%	7
Colorado	27,327	1.585%	5	52.4%	17,930	1.255%	5	102.9%	8,838	1.028%	9
Indiana	26,280	0.949%	40	50.7%	17,439	0.684%	45	34.8%	12,941	0.617%	40
Arizona	24,421	1.425%	11	74.1%	14,023	1.189%	8	112.6%	6,597	1.032%	8
Oregon	19,539	1.394%	12	48.5%	13,157	1.065%	13	88.5%	6,978	0.836%	20
Louisiana	16,732	0.940%	41	30.5%	12,825	0.741%	39	59.9%	8,019	0.659%	36
Alabama	16,597	0.898%	45	40.9%	11,779	0.728%	40	47.9%	7,965	0.641%	39
South Carolina	15,354	0.911%	43	61.2%	9,526	0.684%	46	82.9%	5,209	0.527%	48
Kentucky	14,550	0.872%	47	39.3%	10,446	0.695%	42	52.2%	6,863	0.604%	43
Oklahoma	13,554	0.930%	42	31.5%	10,308	0.770%	35	49.7%	6,884	0.713%	32
Iowa	13,358	0.955%	39	42.2%	9,395	0.686%	44	35.8%	6,917	0.615%	42
Kansas	13,181	1.076%	34	40.6%	9,377	0.837%	26	33.4%	7,031	0.795%	24
New Mexico	10,315	1.524%	8	58.6%	6,505	1.200%	6	83.1%	3,553	1.044%	6
Hawaii	10,223	1.872%	3	51.4%	6,753	1.559%	2	84.2%	3,667	1.248%	4
Utah	9,773	1.264%	20	66.8%	5,858	0.948%	20	60.1%	3,659	0.920%	14
Nevada	9,430	1.464%	10	44.9%	6,507	1.541%	4	111.4%	3,078	1.477%	1
Mississippi	8,736	0.791%	48	41.9%	6,155	0.616%	48	60.9%	3,826	0.508%	49
Arkansas	8,290	0.785%	49	51.6%	5,468	0.585%	49	63.5%	3,344	0.488%	50
New Hampshire	7,487	1.227%	22	99.6%	3,751	0.828%	28	51.6%	2,474	0.813%	22
Maine	7,452	1.221%	23	96.6%	3,790	0.765%	36	74.6%	2,171	0.570%	45
Nebraska	7,150	0.894%	46	26.2%	5,666	0.764%	37	39.3%	4,068	0.688%	34
Rhode Island	6,935	1.333%	18	53.2%	4,527	0.992%	17	44.9%	3,124	0.807%	23
Idaho	5,351	1.137%	30	66.9%	3,207	0.773%	34	73.9%	1,844	0.681%	35
West Virginia	5,071	0.695%	50	20.1%	4,223	0.566%	50	36.6%	3,091	0.537%	47
Vermont	4,462	1.488%	9	88.6%	2,366	0.979%	19	47.9%	1,600	0.917%	15
Montana	4,424	1.181%	25	49.2%	2,966	0.833%	27	59.7%	1,857	0.715%	31
Delaware	3,332	1.021%	35	45.6%	2,288	0.822%	30	36.1%	1,681	0.769%	26
Alaska	3,102	1.158%	28	44.4%	2,148	1.181%	9	202.5%	710	0.725%	30
South Dakota	3,008	0.900%	44	52.4%	1,974	0.635%	47	37.6%	1,435	0.578%	44
North Dakota	2,981	0.987%	37	51.2%	1,972	0.687%	43	70.7%	1,155	0.541%	46
Wyoming	2,149	0.977%	38	34.1%	1,602	0.708%	41	89.8%	844	0.654%	38
District of Columbia**	9,082	2.625%		45.4%	6,247	1.975%		29.3%	4,830	1.392%	

* To determine the influence of sampling error on the number of all artists for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 1SE do not overlap.

** Included to complete the United States.

Table 2. Actors and directors by state of residence: 1970 to 1990

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	109,573	0.089%		64.1%	66,782	0.064%		67.1%	39,969	0.050%	
California	31,753	0.214%	2	53.0%	20,751	0.183%	2	131.4%	8,966	0.113%	1
New York	19,658	0.221%	1	29.5%	15,180	0.191%	1	94.6%	7,800	0.105%	2
Florida	4,563	0.074%	11	117.0%	2,103	0.050%	11	81.6%	1,158	0.046%	12
Illinois	4,433	0.077%	9	95.2%	2,271	0.042%	21	25.9%	1,804	0.039%	22
Texas	4,047	0.050%	28	65.5%	2,445	0.037%	27	55.8%	1,569	0.037%	29
New Jersey	3,362	0.082%	6	88.3%	1,785	0.051%	10	23.3%	1,448	0.049%	9
Massachusetts	2,913	0.090%	3	111.5%	1,377	0.049%	13	36.1%	1,012	0.042%	14
Pennsylvania	2,760	0.048%	30	88.9%	1,461	0.028%	37	10.1%	1,327	0.028%	44
Michigan	2,276	0.051%	26	87.0%	1,217	0.029%	34	22.8%	991	0.029%	43
Virginia	2,193	0.070%	14	68.7%	1,300	0.053%	8	97.6%	658	0.037%	26
Maryland	2,142	0.083%	5	109.2%	1,024	0.050%	12	17.6%	871	0.055%	5
Ohio	2,086	0.040%	40	63.6%	1,275	0.026%	42	1.0%	1,262	0.030%	40
Georgia	1,925	0.059%	21	116.5%	889	0.036%	29	46.2%	608	0.034%	33
Washington	1,803	0.074%	12	93.2%	933	0.048%	14	70.9%	546	0.041%	17
Minnesota	1,530	0.066%	17	96.4%	779	0.039%	23	37.4%	567	0.037%	27
Connecticut	1,457	0.082%	7	75.1%	832	0.054%	6	31.6%	632	0.049%	10
Tennessee	1,392	0.058%	23	154.0%	548	0.027%	39	12.5%	487	0.032%	37
North Carolina	1,382	0.041%	38	94.1%	712	0.026%	41	29.0%	552	0.027%	46
Colorado	1,317	0.076%	10	91.4%	688	0.048%	15	70.3%	404	0.047%	11
Missouri	1,314	0.052%	24	89.1%	695	0.031%	31	17.8%	590	0.032%	36
Wisconsin	1,167	0.047%	32	82.3%	640	0.028%	35	29.6%	494	0.028%	45
Oregon	1,139	0.081%	8	115.3%	529	0.043%	19	38.5%	382	0.046%	13
Arizona	1,092	0.064%	20	79.3%	609	0.052%	9	83.4%	332	0.052%	7
Indiana	963	0.035%	48	49.3%	645	0.025%	45	17.5%	549	0.026%	47
Louisiana	882	0.050%	29	80.7%	488	0.028%	36	9.7%	445	0.037%	30
South Carolina	705	0.042%	36	107.4%	340	0.024%	46	34.4%	253	0.026%	49
Alabama	701	0.038%	43	141.7%	290	0.018%	49	-22.0%	372	0.030%	39
Kentucky	691	0.041%	37	68.9%	409	0.027%	38	22.5%	334	0.029%	41
Oklahoma	663	0.045%	33	89.4%	350	0.026%	40	-7.4%	378	0.039%	23
Iowa	553	0.040%	41	11.7%	495	0.036%	28	32.4%	374	0.033%	34
Kansas	489	0.040%	39	33.2%	367	0.033%	30	9.2%	336	0.038%	24
Arkansas	463	0.044%	35	94.5%	238	0.025%	43	11.2%	214	0.031%	38
New Mexico	435	0.064%	19	70.6%	255	0.047%	16	49.1%	171	0.050%	8
Nevada	427	0.066%	18	41.9%	301	0.071%	4	71.0%	176	0.084%	3
Utah	399	0.052%	25	52.9%	261	0.042%	20	63.1%	160	0.040%	19
Hawaii	392	0.072%	13	51.9%	258	0.060%	5	59.3%	162	0.055%	4
Mississippi	366	0.033%	49	76.0%	208	0.021%	47	6.7%	195	0.026%	48
Rhode Island	359	0.069%	15	82.2%	197	0.043%	18	48.1%	133	0.034%	32
Maine	358	0.059%	22	141.9%	148	0.030%	33	33.3%	111	0.029%	42
Nebraska	296	0.037%	46	5.3%	281	0.038%	26	16.1%	242	0.041%	18
West Virginia	288	0.039%	42	52.4%	189	0.025%	44	2.2%	185	0.032%	35
Montana	253	0.068%	16	56.2%	162	0.045%	17	57.3%	103	0.040%	20
Alaska	233	0.087%	4	56.4%	149	0.082%	3	263.4%	41	0.042%	15
New Hampshire	229	0.038%	44	358.0%	50	0.011%	50	-52.4%	105	0.035%	31
Idaho	211	0.045%	34	32.7%	159	0.038%	25	43.2%	111	0.041%	16
Vermont	140	0.047%	31	48.9%	94	0.039%	24	36.2%	69	0.040%	21
South Dakota	121	0.036%	47	-26.7%	165	0.053%	7	79.3%	92	0.037%	28
North Dakota	113	0.037%	45	0.0%	113	0.039%	22	39.5%	81	0.038%	25
Wyoming	111	0.050%	27	164.3%	42	0.019%	48	-38.2%	68	0.053%	6
Delaware	80	0.025%	50	-5.9%	85	0.031%	32	73.5%	49	0.022%	50
District of Columbia**	948	0.274%		138.2%	398	0.126%		71.6%	232	0.067%	

* To determine the influence of sampling error on the number of actors and directors for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 2SE do not overlap.

** Included to complete the United States.

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Table 3. Announcers by state of residence: 1970 to 1990

(State detail in EEO file state records adds to 60,270; U.S. summary record shows 60,269)

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	60,270	0.049%		28.3%	46,986	0.045%		81.1%	25,942	0.033%	
California	5,583	0.038%	45	40.1%	3,986	0.035%	43	65.1%	2,415	0.030%	39
Texas	4,632	0.057%	23	41.8%	3,267	0.050%	31	117.5%	1,502	0.035%	31
New York	3,729	0.042%	42	38.6%	2,690	0.034%	44	36.8%	1,966	0.027%	42
Florida	2,793	0.046%	38	21.8%	2,293	0.055%	28	108.6%	1,099	0.044%	14
Pennsylvania	2,627	0.046%	37	46.5%	1,793	0.034%	45	39.3%	1,287	0.027%	41
Illinois	2,315	0.040%	43	27.4%	1,817	0.034%	46	73.2%	1,049	0.023%	47
Ohio	2,215	0.042%	41	20.2%	1,843	0.038%	42	80.5%	1,021	0.024%	45
Michigan	2,071	0.046%	36	24.7%	1,661	0.040%	39	81.9%	913	0.027%	43
Georgia	1,770	0.054%	26	43.2%	1,236	0.050%	30	68.4%	734	0.041%	21
North Carolina	1,741	0.051%	32	12.3%	1,551	0.057%	23	81.2%	856	0.042%	18
Virginia	1,717	0.054%	25	20.5%	1,425	0.058%	18	108.3%	684	0.039%	26
Tennessee	1,580	0.066%	13	34.6%	1,174	0.057%	20	78.4%	658	0.043%	17
Indiana	1,416	0.051%	33	28.6%	1,101	0.043%	36	98.0%	556	0.027%	44
Minnesota	1,373	0.060%	19	53.6%	894	0.045%	35	96.1%	456	0.030%	40
Wisconsin	1,361	0.054%	27	19.8%	1,136	0.050%	29	87.5%	606	0.034%	33
Missouri	1,342	0.054%	29	23.7%	1,085	0.048%	32	87.7%	578	0.031%	38
Louisiana	1,255	0.071%	10	26.8%	990	0.057%	21	111.5%	468	0.038%	27
Maryland	1,214	0.047%	34	45.4%	835	0.041%	38	45.0%	576	0.036%	30
New Jersey	1,161	0.028%	49	85.8%	625	0.018%	50	58.2%	395	0.013%	50
Massachusetts	1,158	0.036%	47	36.9%	846	0.030%	48	50.8%	561	0.024%	46
Washington	1,132	0.047%	35	23.7%	915	0.047%	33	76.0%	520	0.039%	24
Kentucky	1,096	0.066%	14	25.5%	873	0.058%	17	97.5%	442	0.039%	25
Alabama	969	0.052%	31	-17.5%	1,174	0.073%	6	128.8%	513	0.041%	20
Arizona	966	0.056%	24	45.0%	666	0.056%	24	138.7%	279	0.044%	15
Colorado	924	0.054%	28	5.7%	874	0.061%	14	144.8%	357	0.042%	19
Iowa	918	0.066%	15	10.3%	832	0.061%	15	70.1%	489	0.043%	16
Oklahoma	853	0.058%	20	3.6%	823	0.062%	12	157.2%	320	0.033%	35
Kansas	798	0.065%	16	13.0%	706	0.063%	10	98.3%	356	0.040%	22
Arkansas	761	0.072%	9	31.0%	581	0.062%	11	112.8%	273	0.040%	23
Oregon	738	0.053%	30	4.5%	706	0.057%	22	91.3%	369	0.044%	13
South Carolina	730	0.043%	39	-6.0%	777	0.056%	26	129.2%	339	0.034%	32
New Mexico	705	0.104%	4	79.8%	392	0.072%	7	50.8%	260	0.076%	3
Mississippi	667	0.060%	18	-1.8%	679	0.068%	8	74.1%	390	0.052%	11
Connecticut	567	0.032%	48	16.9%	485	0.031%	47	66.7%	291	0.022%	48
West Virginia	541	0.074%	7	24.9%	433	0.058%	19	126.7%	191	0.033%	34
Nebraska	467	0.058%	21	7.9%	433	0.058%	16	101.4%	215	0.036%	29
Montana	457	0.122%	2	57.0%	291	0.082%	5	67.2%	174	0.067%	5
North Dakota	449	0.149%	1	34.4%	334	0.116%	1	79.6%	186	0.087%	1
Nevada	436	0.068%	12	68.3%	259	0.061%	13	83.7%	141	0.068%	4
Hawaii	408	0.075%	6	69.3%	241	0.056%	27	156.4%	94	0.032%	37
South Dakota	353	0.106%	3	35.8%	260	0.084%	4	79.3%	145	0.058%	7
Maine	349	0.057%	22	25.1%	279	0.056%	25	37.4%	203	0.053%	10
Idaho	341	0.072%	8	21.8%	280	0.067%	9	75.0%	160	0.059%	6
Utah	283	0.037%	46	1.1%	280	0.045%	34	40.7%	199	0.050%	12
New Hampshire	262	0.043%	40	45.6%	180	0.040%	40	55.2%	116	0.038%	28
Alaska	229	0.085%	5	11.7%	205	0.113%	2	286.8%	53	0.054%	9
Vermont	203	0.068%	11	97.1%	103	0.043%	37	7.3%	96	0.055%	8
Wyoming	133	0.060%	17	-30.7%	192	0.085%	3	82.9%	105	0.081%	2
Delaware	129	0.040%	44	53.6%	84	0.030%	49	20.0%	70	0.032%	36
Rhode Island	121	0.023%	50	-30.5%	174	0.038%	41	145.1%	71	0.018%	49
District of Columbia**	232	0.067%		2.2%	227	0.072%		56.6%	145	0.042%	

* To determine the influence of sampling error on the number of announcers for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 3SE do not overlap.

** Included to complete the United States.

Table 4. Architects by state of residence: 1970 to 1990

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	156,874	0.128%		45.7%	107,693	0.104%		100.7%	53,670	0.067%	
California	28,301	0.191%	4	60.3%	17,652	0.156%	5	128.9%	7,710	0.097%	5
New York	15,661	0.176%	7	80.2%	8,691	0.110%	17	41.3%	6,151	0.083%	13
Texas	8,847	0.109%	22	13.8%	7,775	0.119%	12	157.5%	3,019	0.070%	17
Florida	8,109	0.132%	15	52.9%	5,302	0.127%	9	181.9%	1,881	0.075%	14
Illinois	7,841	0.137%	13	40.4%	5,583	0.103%	21	71.2%	3,262	0.071%	16
Massachusetts	6,515	0.202%	2	70.8%	3,815	0.136%	8	67.5%	2,278	0.096%	6
Pennsylvania	6,501	0.113%	21	48.4%	4,380	0.083%	29	66.4%	2,632	0.056%	25
New Jersey	5,598	0.137%	12	83.1%	3,057	0.087%	27	66.5%	1,836	0.062%	22
Virginia	4,948	0.157%	9	75.6%	2,817	0.115%	15	91.2%	1,473	0.084%	12
Ohio	4,789	0.092%	29	36.6%	3,505	0.071%	36	68.8%	2,077	0.049%	33
Washington	4,695	0.194%	3	49.1%	3,148	0.163%	4	110.7%	1,494	0.112%	2
Maryland	4,432	0.172%	8	97.7%	2,242	0.109%	18	43.1%	1,567	0.099%	4
Georgia	3,802	0.117%	20	73.4%	2,193	0.089%	25	118.4%	1,004	0.056%	26
Michigan	3,445	0.077%	38	8.7%	3,170	0.076%	34	66.0%	1,910	0.055%	27
Connecticut	3,164	0.178%	6	73.2%	1,827	0.118%	14	33.5%	1,369	0.106%	3
Colorado	3,080	0.179%	5	12.4%	2,741	0.192%	2	267.9%	745	0.087%	10
Minnesota	2,715	0.118%	19	37.0%	1,982	0.100%	22	97.6%	1,003	0.066%	21
North Carolina	2,562	0.076%	39	34.2%	1,909	0.070%	38	125.9%	845	0.041%	37
Missouri	2,457	0.098%	24	26.3%	1,945	0.087%	28	95.9%	993	0.054%	29
Arizona	2,437	0.142%	11	36.5%	1,786	0.151%	6	230.7%	540	0.085%	11
Indiana	1,968	0.071%	43	49.9%	1,313	0.051%	47	67.7%	783	0.037%	39
Wisconsin	1,965	0.078%	35	28.5%	1,529	0.068%	40	108.9%	732	0.041%	36
Tennessee	1,942	0.081%	32	22.8%	1,581	0.077%	33	176.9%	571	0.038%	38
Oregon	1,873	0.134%	14	6.8%	1,753	0.142%	7	134.7%	747	0.089%	8
Hawaii	1,461	0.268%	1	66.4%	878	0.203%	1	149.4%	352	0.120%	1
Louisiana	1,337	0.075%	40	-12.8%	1,533	0.089%	26	113.5%	718	0.059%	23
South Carolina	1,323	0.078%	34	18.7%	1,115	0.080%	31	211.5%	358	0.036%	41
Kansas	1,223	0.100%	23	4.6%	1,169	0.104%	20	90.4%	614	0.069%	18
Alabama	1,140	0.062%	46	-0.4%	1,145	0.071%	37	165.7%	431	0.035%	44
Oklahoma	1,054	0.072%	42	19.5%	882	0.066%	42	74.3%	506	0.052%	32
Kentucky	1,051	0.063%	44	35.4%	776	0.052%	45	118.6%	355	0.031%	46
New Mexico	842	0.124%	16	23.3%	683	0.126%	10	170.0%	253	0.074%	15
Iowa	815	0.058%	48	2.4%	796	0.058%	44	103.6%	391	0.035%	43
Utah	739	0.096%	26	7.7%	686	0.111%	16	157.9%	266	0.067%	20
Mississippi	693	0.063%	45	47.4%	470	0.047%	48	76.0%	267	0.035%	42
Arkansas	624	0.059%	47	29.5%	482	0.052%	46	121.1%	218	0.032%	45
Rhode Island	623	0.120%	18	103.6%	306	0.067%	41	44.3%	212	0.055%	28
Nebraska	621	0.078%	36	4.0%	597	0.080%	30	75.6%	340	0.058%	24
Maine	595	0.097%	25	68.1%	354	0.071%	35	237.1%	105	0.028%	48
New Hampshire	558	0.091%	30	110.6%	265	0.059%	43	65.6%	160	0.053%	31
Nevada	538	0.084%	31	37.9%	390	0.092%	24	406.5%	77	0.037%	40
Vermont	455	0.152%	10	52.7%	298	0.123%	11	88.6%	158	0.091%	7
Idaho	431	0.092%	28	-12.2%	491	0.118%	13	305.8%	121	0.045%	34
Alaska	325	0.121%	17	-3.0%	335	0.184%	3	285.1%	87	0.089%	9
West Virginia	307	0.042%	49	26.9%	242	0.032%	50	108.6%	116	0.020%	50
Delaware	301	0.092%	27	56.8%	192	0.069%	39	27.2%	151	0.069%	19
Montana	276	0.074%	41	-26.0%	373	0.105%	19	230.1%	113	0.044%	35
North Dakota	233	0.077%	37	4.0%	224	0.078%	32	255.6%	63	0.029%	47
Wyoming	175	0.080%	33	-18.2%	214	0.095%	23	214.7%	68	0.053%	30
South Dakota	114	0.034%	50	-10.2%	127	0.041%	49	130.9%	55	0.022%	49
District of Columbia**	1,373	0.397%		41.0%	974	0.308%		97.6%	493	0.142%	

* To determine the influence of sampling error on the number of architects for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 4SE do not overlap.

** Included to complete the United States.

Table 5. Authors by state of residence: 1970 to 1990

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	106,730	0.087%		133.3%	45,748	0.044%		64.8%	27,752	0.035%	
California	23,251	0.157%	2	106.3%	11,272	0.100%	2	123.9%	5,035	0.063%	4
New York	14,804	0.166%	1	58.1%	9,361	0.118%	1	68.2%	5,567	0.075%	3
Texas	4,753	0.058%	30	219.6%	1,487	0.023%	34	106.2%	721	0.017%	34
Illinois	4,264	0.074%	21	150.7%	1,701	0.031%	25	102.5%	840	0.018%	31
Florida	4,116	0.067%	25	204.4%	1,352	0.032%	22	91.0%	708	0.028%	19
Virginia	4,056	0.129%	5	207.3%	1,320	0.054%	10	44.4%	914	0.052%	7
Massachusetts	4,042	0.125%	6	165.0%	1,525	0.054%	8	13.2%	1,347	0.056%	5
Pennsylvania	3,281	0.057%	32	165.2%	1,237	0.023%	33	74.2%	710	0.015%	38
New Jersey	3,036	0.074%	20	121.6%	1,370	0.039%	18	63.3%	839	0.028%	18
Washington	2,679	0.111%	9	214.4%	852	0.044%	14	90.2%	448	0.034%	14
Maryland	2,391	0.093%	16	176.7%	864	0.042%	17	-38.3%	1,401	0.088%	1
Ohio	2,324	0.044%	42	191.6%	797	0.016%	41	20.8%	660	0.016%	36
Minnesota	2,166	0.094%	15	242.7%	632	0.032%	24	3.9%	608	0.040%	11
Michigan	2,155	0.048%	38	184.7%	757	0.018%	39	21.3%	624	0.018%	32
Colorado	2,097	0.122%	7	137.8%	882	0.062%	5	177.4%	318	0.037%	12
Connecticut	2,085	0.117%	8	138.8%	873	0.056%	7	-17.5%	1,058	0.082%	2
Georgia	1,874	0.058%	31	209.8%	605	0.025%	30	149.0%	243	0.013%	39
North Carolina	1,680	0.050%	37	227.5%	513	0.019%	38	0.4%	511	0.025%	24
Arizona	1,578	0.092%	17	216.9%	498	0.042%	16	48.2%	336	0.053%	6
Oregon	1,517	0.108%	11	168.0%	566	0.046%	13	196.3%	191	0.023%	26
Missouri	1,420	0.057%	33	140.7%	590	0.026%	29	27.7%	462	0.025%	23
Wisconsin	1,263	0.050%	35	92.5%	656	0.029%	27	44.8%	453	0.026%	22
Tennessee	1,195	0.050%	36	317.8%	286	0.014%	43	115.0%	133	0.009%	41
Indiana	1,146	0.041%	43	244.1%	333	0.013%	44	-1.5%	338	0.016%	35
New Mexico	886	0.131%	4	164.5%	335	0.062%	4	132.6%	144	0.042%	9
Oklahoma	796	0.055%	34	171.7%	293	0.022%	36	1.4%	289	0.030%	16
Kansas	794	0.065%	26	215.1%	252	0.022%	35	7.2%	235	0.027%	20
Alabama	704	0.038%	44	501.7%	117	0.007%	49	-60.9%	299	0.024%	25
Utah	641	0.083%	18	208.2%	208	0.034%	21	48.6%	140	0.035%	13
South Carolina	635	0.038%	45	87.9%	338	0.024%	31	339.0%	77	0.008%	42
Maine	626	0.103%	12	147.4%	253	0.051%	11	336.2%	58	0.015%	37
Iowa	625	0.045%	41	164.8%	236	0.017%	40	11.8%	211	0.019%	30
Louisiana	606	0.034%	47	87.0%	324	0.019%	37	343.8%	73	0.006%	45
Kentucky	585	0.035%	46	246.2%	169	0.011%	45	98.8%	85	0.007%	43
New Hampshire	585	0.096%	14	179.9%	209	0.046%	12	68.5%	124	0.041%	10
Nevada	461	0.072%	23	80.8%	255	0.060%	6	442.6%	47	0.023%	27
Vermont	418	0.139%	3	349.5%	93	0.038%	19	8.1%	86	0.049%	8
Rhode Island	384	0.074%	22	131.3%	166	0.036%	20	118.4%	76	0.020%	29
Hawaii	379	0.069%	24	62.7%	233	0.054%	9	158.9%	90	0.031%	15
Nebraska	379	0.047%	39	223.9%	117	0.016%	42	51.9%	77	0.013%	40
Montana	359	0.096%	13	128.7%	157	0.044%	15	823.5%	17	0.007%	44
Alaska	293	0.109%	10	142.1%	121	0.067%	3	365.4%	26	0.027%	21
Idaho	287	0.061%	29	127.8%	126	0.030%	26	162.5%	48	0.018%	33
Mississippi	283	0.026%	48	245.1%	82	0.008%	47	-51.2%	168	0.022%	28
Arkansas	252	0.024%	49	186.4%	88	0.009%	46	131.6%	38	0.006%	46
Delaware	203	0.062%	28	174.3%	74	0.027%	28	13.8%	65	0.030%	17
North Dakota	190	0.063%	27	955.6%	18	0.006%	50	80.0%	10	0.005%	47
Wyoming	181	0.082%	19	241.5%	53	0.023%	32	1225.0%	4	0.003%	48
South Dakota	156	0.047%	40	56.0%	100	0.032%	23	1566.7%	6	0.002%	49
West Virginia	112	0.015%	50	93.1%	58	0.008%	48	383.3%	12	0.002%	50
District of Columbia**	1,737	0.502%		84.0%	944	0.299%		20.7%	782	0.225%	

* To determine the influence of sampling error on the number of authors for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 5SE do not overlap.

** Included to complete the United States.

Table 6. Dancers by state of residence: 1970 to 1990

(Caution: There are too few dancers in most states to permit useful comparisons. The state ranking is shown only for comparability in style with other tables in this appendix.)

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	21,913	0.018%		66.1%	13,194	0.013%		78.2%	7,404	0.009%	
California	2,854	0.019%	12	25.2%	2,279	0.020%	5	24.1%	1,836	0.023%	4
New York	2,736	0.031%	4	5.2%	2,600	0.033%	4	102.8%	1,282	0.017%	5
Texas	1,864	0.023%	7	161.4%	713	0.011%	14	195.9%	241	0.006%	23
Florida	1,803	0.029%	5	120.4%	818	0.020%	6	222.0%	254	0.010%	12
Nevada	873	0.136%	1	53.7%	568	0.135%	1	113.5%	266	0.128%	1
New Jersey	813	0.020%	9	77.1%	459	0.013%	11	227.9%	140	0.005%	26
Michigan	736	0.016%	17	381.0%	153	0.004%	41	-50.5%	309	0.009%	14
Ohio	720	0.014%	25	88.0%	383	0.008%	22	16.1%	330	0.008%	16
Pennsylvania	660	0.012%	32	117.1%	304	0.006%	36	60.0%	190	0.004%	33
Illinois	627	0.011%	35	57.1%	399	0.007%	28	55.3%	257	0.006%	24
Georgia	573	0.018%	15	160.5%	220	0.009%	20	111.5%	104	0.006%	22
Hawaii	523	0.096%	2	18.6%	441	0.102%	2	68.3%	262	0.089%	2
Washington	471	0.019%	11	130.9%	204	0.011%	17	56.9%	130	0.010%	13
Virginia	451	0.014%	24	206.8%	147	0.006%	34	81.5%	81	0.005%	27
Arizona	433	0.025%	6	98.6%	218	0.018%	7	120.2%	99	0.015%	8
Indiana	414	0.015%	21	43.8%	288	0.011%	13	209.7%	93	0.004%	30
Maryland	405	0.016%	19	36.4%	297	0.014%	8	76.8%	168	0.011%	11
Massachusetts	376	0.012%	31	72.5%	218	0.008%	23	105.7%	106	0.004%	29
North Carolina	369	0.011%	36	99.5%	185	0.007%	31	219.0%	58	0.003%	38
Colorado	327	0.019%	13	66.8%	196	0.014%	10	84.9%	106	0.012%	9
Minnesota	282	0.012%	27	89.3%	149	0.007%	26	520.8%	24	0.002%	44
Missouri	279	0.011%	33	267.1%	76	0.003%	43	28.8%	59	0.003%	35
Oregon	279	0.020%	10	136.4%	118	0.010%	18	32.6%	89	0.011%	10
Louisiana	265	0.015%	22	113.7%	124	0.007%	30	27.8%	97	0.008%	15
Tennessee	252	0.011%	37	65.8%	152	0.007%	27	2940.0%	5	0.000%	48
Oklahoma	244	0.017%	16	238.9%	72	0.005%	37	28.6%	56	0.006%	21
Connecticut	215	0.012%	28	30.3%	165	0.011%	16	258.7%	46	0.004%	34
Wisconsin	214	0.009%	40	24.4%	172	0.008%	24	75.5%	98	0.006%	25
Alabama	204	0.011%	34	175.7%	74	0.005%	39	146.7%	30	0.002%	41
Kentucky	198	0.012%	29	4.8%	189	0.013%	12	148.7%	76	0.007%	18
Kansas	179	0.015%	23	371.1%	38	0.003%	42	-33.3%	57	0.006%	19
Utah	161	0.021%	8	85.1%	87	0.014%	9	38.1%	63	0.016%	7
Nebraska	124	0.016%	20	188.4%	43	0.006%	35	168.8%	16	0.003%	40
New Mexico	123	0.018%	14	355.6%	27	0.005%	38	170.0%	10	0.003%	37
South Carolina	119	0.007%	41	176.7%	43	0.003%	44	-37.7%	69	0.007%	17
Arkansas	105	0.010%	38	81.0%	58	0.006%	33	427.3%	11	0.002%	43
New Hampshire	96	0.016%	18	NA	0	0.000%	47	-100.0%	9	0.003%	36
Alaska	83	0.031%	3	31.7%	63	0.035%	3	103.2%	31	0.032%	3
Rhode Island	67	0.013%	26	415.4%	13	0.003%	45	-18.8%	16	0.004%	32
Iowa	61	0.004%	44	-40.8%	103	0.008%	25	635.7%	14	0.001%	46
Maine	57	0.009%	39	200.0%	19	0.004%	40	533.3%	3	0.001%	47
West Virginia	48	0.007%	42	2.1%	47	0.006%	32	193.8%	16	0.003%	39
Mississippi	29	0.003%	47	-64.6%	82	0.008%	21	645.5%	11	0.001%	45
Wyoming	26	0.012%	30	NA	0	0.000%	50	-100.0%	22	0.017%	6
North Dakota	14	0.005%	43	NA	0	0.000%	48	-100.0%	9	0.004%	31
Delaware	13	0.004%	45	-56.7%	30	0.011%	15	200.0%	10	0.005%	28
South Dakota	13	0.004%	46	NA	0	0.000%	49	-100.0%	5	0.002%	42
Montana	8	0.002%	48	-75.8%	33	0.009%	19	NA	0	0.000%	49
Idaho	6	0.001%	50	-80.0%	30	0.007%	29	76.5%	17	0.006%	20
Vermont	4	0.001%	49	33.3%	3	0.001%	46	NA	0	0.000%	50
District of Columbia**	117	0.034%		24.5%	94	0.030%		-23.6%	123	0.035%	

* California and New York are essentially the same. Texas and Florida are also the same. To determine the influence of sampling error on the number of dancers for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 6SE do not overlap. After California-New York and Texas-Florida, rank differences between adjacent states are most often not statistically significant.

** Included to complete the United States.

Table 7. Designers by state of residence: 1970 to 1990

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	596,802	0.487%		76.4%	338,374	0.326%		45.3%	232,890	0.292%	
California	92,780	0.625%	2	93.1%	48,036	0.425%	2	54.3%	31,127	0.391%	2
New York	60,149	0.676%	1	37.2%	43,833	0.553%	1	17.7%	37,236	0.503%	1
Texas	34,851	0.428%	28	69.3%	20,581	0.314%	13	93.0%	10,663	0.249%	20
Florida	29,419	0.480%	14	108.6%	14,102	0.336%	9	92.4%	7,330	0.292%	11
Illinois	28,590	0.498%	11	65.7%	17,255	0.319%	11	26.7%	13,616	0.297%	9
Michigan	26,009	0.580%	4	75.9%	14,786	0.355%	7	29.4%	11,428	0.332%	4
Pennsylvania	25,562	0.446%	25	70.6%	14,981	0.282%	22	24.3%	12,051	0.256%	19
Ohio	23,353	0.446%	24	67.4%	13,949	0.284%	21	20.5%	11,575	0.274%	15
New Jersey	23,036	0.565%	5	67.8%	13,728	0.393%	4	22.1%	11,240	0.379%	3
Massachusetts	18,077	0.560%	6	79.2%	10,089	0.360%	6	29.0%	7,821	0.328%	5
Georgia	14,790	0.454%	23	121.9%	6,664	0.271%	26	76.7%	3,772	0.210%	31
Virginia	14,467	0.459%	20	90.7%	7,588	0.309%	14	51.9%	4,996	0.284%	13
North Carolina	13,752	0.406%	30	84.0%	7,472	0.273%	24	76.9%	4,225	0.206%	32
Washington	12,770	0.527%	7	89.7%	6,733	0.349%	8	115.9%	3,119	0.234%	25
Maryland	12,415	0.481%	13	115.9%	5,750	0.281%	23	25.4%	4,586	0.289%	12
Wisconsin	11,485	0.459%	19	90.7%	6,024	0.267%	27	51.3%	3,981	0.225%	27
Minnesota	11,382	0.494%	12	87.1%	6,083	0.306%	16	62.3%	3,749	0.246%	23
Connecticut	11,098	0.623%	3	93.2%	5,744	0.372%	5	35.9%	4,227	0.326%	6
Indiana	10,863	0.392%	32	72.8%	6,287	0.247%	34	40.6%	4,470	0.213%	30
Missouri	10,365	0.413%	29	81.2%	5,720	0.255%	31	29.7%	4,409	0.240%	24
Tennessee	9,096	0.381%	34	84.5%	4,929	0.240%	35	47.2%	3,349	0.220%	28
Colorado	8,875	0.515%	9	89.5%	4,683	0.328%	10	93.9%	2,415	0.281%	14
Arizona	7,898	0.461%	18	110.3%	3,756	0.318%	12	116.6%	1,734	0.271%	16
Alabama	6,644	0.359%	38	56.1%	4,256	0.263%	28	66.3%	2,560	0.206%	33
Oregon	6,575	0.469%	16	73.6%	3,787	0.307%	15	135.4%	1,609	0.193%	34
South Carolina	6,353	0.377%	35	105.6%	3,090	0.222%	36	64.9%	1,874	0.190%	35
Kentucky	5,652	0.339%	39	72.1%	3,284	0.218%	39	56.1%	2,104	0.185%	36
Louisiana	5,474	0.308%	42	49.7%	3,656	0.211%	41	71.5%	2,132	0.175%	42
Iowa	5,174	0.370%	37	72.8%	2,995	0.219%	38	46.7%	2,041	0.182%	38
Kansas	4,575	0.374%	36	65.6%	2,763	0.247%	33	46.3%	1,889	0.214%	29
Oklahoma	4,066	0.279%	46	22.4%	3,321	0.248%	32	92.3%	1,727	0.179%	40
Utah	3,572	0.462%	17	94.6%	1,836	0.297%	18	72.2%	1,066	0.268%	17
Mississippi	3,418	0.309%	41	65.2%	2,069	0.207%	42	78.7%	1,158	0.154%	46
Arkansas	2,978	0.282%	45	60.5%	1,855	0.199%	44	94.6%	953	0.139%	47
New Hampshire	2,894	0.474%	15	113.3%	1,357	0.300%	17	50.8%	900	0.296%	10
Rhode Island	2,713	0.522%	8	47.4%	1,841	0.403%	3	50.5%	1,223	0.316%	7
New Mexico	2,682	0.396%	31	88.6%	1,422	0.262%	29	69.7%	838	0.246%	22
Maine	2,618	0.429%	27	177.3%	944	0.191%	46	57.1%	601	0.158%	45
Nebraska	2,582	0.323%	40	57.2%	1,643	0.221%	37	53.1%	1,073	0.182%	37
Nevada	2,506	0.389%	33	119.2%	1,143	0.271%	25	139.1%	478	0.229%	26
Hawaii	2,488	0.456%	22	101.3%	1,236	0.285%	20	40.6%	879	0.299%	8
Idaho	2,157	0.458%	21	183.8%	760	0.183%	47	65.6%	459	0.169%	43
West Virginia	1,902	0.261%	48	19.5%	1,591	0.213%	40	53.6%	1,036	0.180%	39
Vermont	1,526	0.509%	10	143.4%	627	0.260%	30	34.3%	467	0.268%	18
Delaware	1,434	0.440%	26	79.5%	799	0.287%	19	47.7%	541	0.248%	21
Montana	1,133	0.303%	43	100.5%	565	0.159%	48	35.2%	418	0.161%	44
South Dakota	879	0.263%	47	127.7%	386	0.124%	50	20.6%	320	0.129%	48
North Dakota	784	0.259%	49	75.4%	447	0.156%	49	109.9%	213	0.100%	50
Wyoming	650	0.296%	44	47.1%	442	0.195%	45	176.3%	160	0.124%	49
Alaska	608	0.227%	50	67.5%	363	0.200%	43	111.0%	172	0.176%	41
District of Columbia**	1,683	0.486%		49.9%	1,123	0.355%		27.6%	880	0.254%	

* To determine the influence of sampling error on the number of designers for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 7SE do not overlap.

** Included to complete the United States.

Table 8. Musicians and composers by state of residence: 1970 to 1990

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	148,020	0.121%		5.3%	140,556	0.136%		41.2%	99,533	0.125%	
California	24,566	0.165%	5	7.2%	22,919	0.203%	4	55.4%	14,752	0.185%	3
New York	16,296	0.183%	4	-3.2%	16,836	0.212%	3	38.8%	12,132	0.164%	5
Texas	9,179	0.113%	14	18.9%	7,717	0.118%	16	41.7%	5,445	0.127%	15
Florida	9,088	0.148%	7	17.8%	7,713	0.184%	6	78.2%	4,328	0.172%	4
Illinois	6,248	0.109%	17	13.3%	5,514	0.102%	32	7.7%	5,120	0.112%	23
Pennsylvania	5,287	0.092%	34	-10.3%	5,892	0.111%	21	20.9%	4,873	0.104%	31
Tennessee	5,271	0.221%	2	37.8%	3,826	0.187%	5	79.7%	2,129	0.140%	10
Ohio	4,962	0.095%	31	-8.5%	5,424	0.110%	25	23.7%	4,385	0.104%	30
Michigan	4,569	0.102%	22	-1.5%	4,640	0.111%	20	20.6%	3,847	0.112%	24
New Jersey	4,181	0.102%	20	-6.7%	4,481	0.128%	13	33.6%	3,354	0.113%	21
Massachusetts	3,893	0.121%	13	-8.6%	4,257	0.152%	8	70.0%	2,504	0.105%	29
North Carolina	3,278	0.097%	27	23.6%	2,652	0.097%	36	50.4%	1,763	0.086%	42
Georgia	3,222	0.099%	24	17.4%	2,745	0.112%	19	75.0%	1,569	0.087%	39
Virginia	3,110	0.099%	25	20.0%	2,592	0.106%	30	75.5%	1,477	0.084%	43
Washington	3,036	0.125%	10	-9.8%	3,366	0.175%	7	60.7%	2,095	0.157%	7
Minnesota	2,919	0.127%	9	6.7%	2,736	0.138%	11	37.9%	1,984	0.130%	12
Indiana	2,436	0.088%	37	9.0%	2,234	0.088%	41	15.5%	1,934	0.092%	35
Missouri	2,398	0.096%	30	-3.8%	2,493	0.111%	22	25.4%	1,988	0.108%	26
Maryland	2,318	0.090%	36	-10.5%	2,589	0.126%	15	35.4%	1,912	0.121%	19
Arizona	2,279	0.133%	8	30.5%	1,747	0.148%	9	69.1%	1,033	0.162%	6
Wisconsin	2,185	0.087%	38	-9.5%	2,414	0.107%	29	21.0%	1,995	0.113%	22
Colorado	2,143	0.124%	12	6.4%	2,014	0.141%	10	50.5%	1,338	0.156%	8
Louisiana	1,962	0.110%	16	3.7%	1,892	0.109%	26	32.4%	1,429	0.117%	20
Alabama	1,785	0.097%	29	21.6%	1,468	0.091%	39	12.3%	1,307	0.105%	28
Oregon	1,752	0.125%	11	8.1%	1,621	0.131%	12	50.5%	1,077	0.129%	13
Connecticut	1,720	0.097%	28	-1.1%	1,740	0.113%	18	49.7%	1,162	0.090%	38
Oklahoma	1,630	0.112%	15	24.0%	1,314	0.098%	34	25.4%	1,048	0.109%	25
Kentucky	1,583	0.095%	32	-5.0%	1,666	0.111%	23	53.5%	1,085	0.095%	33
Nevada	1,552	0.241%	1	-11.3%	1,750	0.415%	1	60.6%	1,090	0.523%	1
South Carolina	1,437	0.085%	39	27.1%	1,131	0.081%	43	60.2%	706	0.071%	45
Mississippi	1,173	0.106%	18	30.5%	899	0.090%	40	56.9%	573	0.076%	44
Hawaii	1,080	0.198%	3	-1.5%	1,097	0.253%	2	76.9%	620	0.211%	2
Iowa	1,033	0.074%	45	-7.1%	1,112	0.081%	44	13.7%	978	0.087%	41
Kansas	971	0.079%	43	7.4%	904	0.081%	45	-16.1%	1,078	0.122%	18
Arkansas	865	0.082%	42	18.8%	728	0.078%	46	58.6%	459	0.067%	47
New Mexico	711	0.105%	19	2.6%	693	0.128%	14	48.1%	468	0.138%	11
Nebraska	593	0.074%	44	-22.8%	768	0.103%	31	2.3%	751	0.127%	16
Montana	557	0.149%	6	68.8%	330	0.093%	38	-17.7%	401	0.154%	9
New Hampshire	519	0.085%	40	21.8%	426	0.094%	37	185.9%	149	0.049%	50
Maine	513	0.084%	41	-6.4%	548	0.111%	24	57.9%	347	0.091%	36
Rhode Island	469	0.090%	35	-4.1%	489	0.107%	28	39.3%	351	0.091%	37
West Virginia	468	0.064%	47	-10.2%	521	0.070%	49	28.3%	406	0.070%	46
Utah	439	0.057%	50	-5.0%	462	0.075%	47	97.4%	234	0.059%	48
Idaho	310	0.066%	46	1.3%	306	0.074%	48	-9.7%	339	0.125%	17
South Dakota	309	0.092%	33	2.0%	303	0.097%	35	-4.1%	316	0.127%	14
Vermont	306	0.102%	21	16.8%	262	0.108%	27	187.9%	91	0.052%	49
North Dakota	305	0.101%	23	6.3%	287	0.100%	33	54.3%	186	0.087%	40
Alaska	260	0.097%	26	22.1%	213	0.117%	17	126.6%	94	0.096%	32
Delaware	201	0.062%	48	-15.2%	237	0.085%	42	14.5%	207	0.095%	34
Wyoming	131	0.060%	49	67.9%	78	0.034%	50	-43.5%	138	0.107%	27
District of Columbia**	522	0.151%		2.4%	510	0.161%	4.9%	486		0.140%	

* To determine the influence of sampling error on the number of musicians and composers for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 8SE do not overlap.

** Included to complete the United States.

Table 9. Painters, sculptors, craft-artists, and artist printmakers by state of residence: 1970 to 1990

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	212,762	0.174%		38.9%	153,162	0.148%		76.4%	86,849	0.109%	
California	32,940	0.222%	6	33.6%	24,657	0.218%	4	97.1%	12,507	0.157%	2
New York	23,641	0.266%	3	11.1%	21,274	0.268%	2	38.3%	15,381	0.208%	1
Texas	11,515	0.142%	30	36.8%	8,419	0.129%	24	136.5%	3,560	0.083%	27
Florida	11,275	0.184%	15	90.3%	5,926	0.141%	20	127.3%	2,607	0.104%	15
Illinois	10,301	0.179%	18	39.5%	7,382	0.136%	22	21.9%	6,055	0.132%	5
Pennsylvania	8,905	0.155%	27	39.7%	6,376	0.120%	26	46.3%	4,359	0.093%	22
New Jersey	7,355	0.180%	17	31.3%	5,602	0.160%	13	42.1%	3,941	0.133%	4
Ohio	7,070	0.135%	35	31.6%	5,373	0.109%	32	33.1%	4,036	0.096%	21
Massachusetts	6,576	0.204%	11	37.3%	4,788	0.171%	12	61.2%	2,970	0.125%	8
Michigan	6,251	0.139%	32	33.0%	4,699	0.113%	31	35.0%	3,482	0.101%	17
Virginia	5,235	0.166%	25	35.0%	3,878	0.158%	14	146.5%	1,573	0.089%	24
Washington	5,156	0.213%	9	42.4%	3,620	0.188%	9	175.3%	1,315	0.099%	19
Maryland	4,778	0.185%	14	33.7%	3,575	0.175%	11	78.5%	2,003	0.126%	6
Georgia	4,490	0.138%	33	76.9%	2,538	0.103%	35	90.3%	1,334	0.074%	29
Missouri	4,305	0.172%	23	45.0%	2,968	0.132%	23	58.4%	1,874	0.102%	16
Wisconsin	4,247	0.170%	24	53.9%	2,760	0.122%	25	56.3%	1,766	0.100%	18
North Carolina	4,185	0.124%	39	110.6%	1,987	0.072%	43	94.4%	1,022	0.050%	41
Colorado	4,087	0.237%	5	45.7%	2,805	0.196%	7	174.5%	1,022	0.119%	10
Minnesota	4,055	0.176%	21	32.5%	3,060	0.154%	16	84.1%	1,662	0.109%	14
Connecticut	3,800	0.213%	8	34.0%	2,835	0.183%	10	61.0%	1,761	0.136%	3
Arizona	3,662	0.214%	7	60.3%	2,284	0.194%	8	223.1%	707	0.111%	13
Tennessee	3,239	0.136%	34	51.5%	2,138	0.104%	34	132.6%	919	0.060%	35
Indiana	2,904	0.105%	44	31.3%	2,212	0.087%	39	91.7%	1,154	0.055%	38
Oregon	2,775	0.198%	13	45.3%	1,910	0.155%	15	156.4%	745	0.089%	25
New Mexico	2,438	0.360%	1	61.0%	1,514	0.279%	1	256.2%	425	0.125%	7
Louisiana	1,897	0.107%	43	39.8%	1,357	0.078%	40	97.5%	687	0.056%	37
Alabama	1,878	0.102%	45	54.8%	1,213	0.075%	42	70.8%	710	0.057%	36
Kansas	1,838	0.150%	29	43.6%	1,280	0.114%	30	61.6%	792	0.090%	23
Iowa	1,764	0.126%	38	45.8%	1,210	0.088%	38	115.3%	562	0.050%	40
Oklahoma	1,733	0.119%	42	19.7%	1,448	0.108%	33	112.3%	682	0.071%	31
South Carolina	1,650	0.098%	46	74.4%	946	0.068%	45	155.0%	371	0.038%	47
Utah	1,616	0.209%	10	72.6%	936	0.152%	18	102.2%	463	0.116%	11
Hawaii	1,447	0.265%	4	31.4%	1,101	0.254%	3	226.7%	337	0.115%	12
Kentucky	1,361	0.082%	48	28.4%	1,060	0.070%	44	97.0%	538	0.047%	44
Maine	1,226	0.201%	12	110.3%	583	0.118%	28	195.9%	197	0.052%	39
New Hampshire	1,107	0.181%	16	61.1%	687	0.152%	17	180.4%	245	0.081%	28
Nevada	974	0.151%	28	94.0%	502	0.119%	27	232.5%	151	0.072%	30
Nebraska	954	0.119%	41	29.4%	737	0.099%	36	89.0%	390	0.066%	32
Rhode Island	899	0.173%	22	43.6%	626	0.137%	21	65.6%	378	0.098%	20
Arkansas	887	0.084%	47	85.6%	478	0.051%	48	77.0%	270	0.039%	46
Vermont	814	0.271%	2	62.8%	500	0.207%	5	132.6%	215	0.123%	9
Mississippi	748	0.068%	49	31.2%	570	0.057%	47	192.3%	195	0.026%	49
Montana	672	0.179%	19	25.8%	534	0.150%	19	240.1%	157	0.060%	34
Idaho	606	0.129%	36	63.8%	370	0.089%	37	176.1%	134	0.049%	42
Alaska	472	0.176%	20	29.0%	366	0.201%	6	500.0%	61	0.062%	33
South Dakota	468	0.140%	31	162.9%	178	0.057%	46	128.2%	78	0.031%	48
West Virginia	465	0.064%	50	31.0%	355	0.048%	50	25.0%	284	0.049%	43
Delaware	400	0.123%	40	23.8%	323	0.116%	29	67.4%	193	0.088%	26
North Dakota	387	0.128%	37	165.1%	146	0.051%	49	198.0%	49	0.023%	50
Wyoming	348	0.158%	26	102.3%	172	0.076%	41	212.7%	55	0.043%	45
District of Columbia**	966	0.279%		6.9%	904	0.286%		90.3%	475	0.137%	

* To determine the influence of sampling error on the number of painters, sculptors, craft-artists, and artist printmakers for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 9SE do not overlap.

** Included to complete the United States.

Table 10. Photographers by state of residence: 1970 to 1990

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	143,520	0.117%		51.5%	94,762	0.091%		40.2%	67,588	0.085%	
California	22,843	0.154%	4	74.9%	13,060	0.115%	4	37.6%	9,494	0.119%	3
New York	14,516	0.163%	2	37.7%	10,539	0.133%	3	20.1%	8,775	0.119%	4
Texas	9,091	0.112%	19	62.9%	5,582	0.085%	27	64.3%	3,398	0.079%	22
Illinois	6,795	0.118%	13	37.9%	4,929	0.091%	17	19.1%	4,138	0.090%	11
Florida	6,651	0.109%	24	62.3%	4,098	0.098%	11	87.2%	2,189	0.087%	13
Pennsylvania	6,109	0.107%	26	58.3%	3,859	0.073%	36	15.3%	3,347	0.071%	30
Ohio	5,167	0.099%	35	22.7%	4,211	0.086%	26	40.2%	3,003	0.071%	31
New Jersey	4,741	0.116%	15	51.3%	3,134	0.090%	20	26.8%	2,471	0.083%	17
Massachusetts	4,625	0.143%	6	64.1%	2,818	0.101%	9	43.0%	1,970	0.083%	20
Michigan	4,588	0.102%	32	35.6%	3,384	0.081%	28	31.4%	2,575	0.075%	27
Virginia	3,288	0.104%	29	49.7%	2,196	0.089%	21	49.9%	1,465	0.083%	18
North Carolina	3,186	0.094%	41	65.2%	1,928	0.070%	37	82.4%	1,057	0.052%	46
Georgia	3,130	0.096%	38	86.5%	1,678	0.068%	41	51.9%	1,105	0.061%	40
Maryland	2,987	0.116%	16	42.4%	2,097	0.102%	7	10.7%	1,894	0.119%	2
Washington	2,935	0.121%	11	62.5%	1,806	0.094%	16	60.8%	1,123	0.084%	16
Colorado	2,681	0.155%	3	72.3%	1,556	0.109%	6	71.9%	905	0.105%	6
Tennessee	2,674	0.112%	18	47.2%	1,816	0.089%	22	82.1%	997	0.066%	38
Missouri	2,640	0.105%	27	36.5%	1,934	0.086%	25	32.9%	1,455	0.079%	23
Minnesota	2,535	0.110%	23	42.2%	1,783	0.090%	19	30.8%	1,363	0.089%	12
Wisconsin	2,377	0.095%	40	42.4%	1,669	0.074%	34	36.6%	1,222	0.069%	34
Indiana	2,330	0.084%	43	46.0%	1,596	0.063%	45	15.0%	1,388	0.066%	37
Arizona	2,054	0.120%	12	73.5%	1,184	0.100%	10	123.8%	529	0.083%	19
Connecticut	2,022	0.114%	17	35.9%	1,488	0.096%	14	25.9%	1,182	0.091%	9
Louisiana	1,695	0.095%	39	33.0%	1,274	0.074%	35	56.5%	814	0.067%	35
Alabama	1,512	0.082%	45	35.0%	1,120	0.069%	39	49.1%	751	0.060%	42
Oregon	1,502	0.107%	25	24.9%	1,203	0.097%	12	70.4%	706	0.085%	14
Oklahoma	1,440	0.099%	36	36.8%	1,053	0.079%	32	29.4%	814	0.084%	15
Iowa	1,421	0.102%	34	79.9%	790	0.058%	47	38.6%	570	0.051%	47
Kentucky	1,368	0.082%	44	29.8%	1,054	0.070%	38	39.4%	756	0.067%	36
South Carolina	1,347	0.080%	46	43.9%	936	0.067%	43	93.0%	485	0.049%	49
Kansas	1,245	0.102%	33	27.7%	975	0.087%	23	40.1%	696	0.079%	24
Utah	1,169	0.151%	5	94.5%	601	0.097%	13	66.9%	360	0.091%	10
Hawaii	968	0.177%	1	60.5%	603	0.139%	1	86.1%	324	0.110%	5
New Mexico	934	0.138%	7	68.6%	554	0.102%	8	22.6%	452	0.133%	1
Mississippi	810	0.073%	48	50.0%	540	0.054%	48	76.5%	306	0.041%	50
Arkansas	753	0.071%	50	29.6%	581	0.062%	46	57.5%	369	0.054%	45
New Hampshire	720	0.118%	14	213.0%	230	0.051%	50	-7.3%	248	0.082%	21
Maine	682	0.112%	20	79.9%	379	0.077%	33	71.5%	221	0.058%	44
Nevada	662	0.103%	31	15.5%	573	0.136%	2	198.4%	192	0.092%	8
Rhode Island	643	0.124%	10	49.5%	430	0.094%	15	59.3%	270	0.070%	32
Nebraska	609	0.076%	47	-9.8%	675	0.091%	18	88.0%	359	0.061%	41
Idaho	594	0.126%	8	77.3%	335	0.081%	30	69.2%	198	0.073%	28
West Virginia	529	0.073%	49	36.7%	387	0.052%	49	35.8%	285	0.049%	48
Montana	366	0.098%	37	19.2%	307	0.086%	24	51.2%	203	0.078%	25
Delaware	361	0.111%	22	61.9%	223	0.080%	31	32.0%	169	0.077%	26
South Dakota	351	0.105%	28	66.4%	211	0.068%	42	44.5%	146	0.059%	43
Alaska	333	0.124%	9	66.5%	200	0.110%	5	217.5%	63	0.064%	39
Vermont	311	0.104%	30	88.5%	165	0.068%	40	-0.6%	166	0.095%	7
North Dakota	276	0.091%	42	45.3%	190	0.066%	44	23.4%	154	0.072%	29
Wyoming	245	0.111%	21	33.9%	183	0.081%	29	103.3%	90	0.070%	33
District of Columbia**	709	0.205%		9.9%	645	0.204%		71.5%	376	0.108%	

* To determine the influence of sampling error on the number of photographers for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 10SE do not overlap.

** Included to complete the United States.

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Table 11. Teachers of art, drama, and music by state of residence: 1970 to 1990

(Caution: There are too few teachers of art, drama and music in most states to permit useful comparisons. The state ranking is shown only for comparability in style with other tables in this appendix.)

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	21,393	0.017%		-24.6%	28,385	0.027%		-32.4%	42,000	0.053%	
California	2,389	0.016%	34	-25.8%	3,219	0.028%	24	-25.1%	4,295	0.054%	28
New York	1,684	0.019%	22	-23.3%	2,195	0.028%	26	-39.6%	3,635	0.049%	36
Texas	1,475	0.018%	25	-6.1%	1,571	0.024%	39	-24.7%	2,085	0.049%	37
Illinois	1,123	0.020%	18	-22.4%	1,448	0.027%	29	-38.0%	2,335	0.051%	34
Ohio	1,019	0.019%	20	-14.1%	1,186	0.024%	36	-36.8%	1,876	0.044%	43
Pennsylvania	935	0.016%	32	-26.9%	1,279	0.024%	37	-37.3%	2,039	0.043%	44
Massachusetts	682	0.021%	13	-36.7%	1,078	0.038%	10	-25.1%	1,439	0.060%	20
Michigan	675	0.015%	39	-23.1%	878	0.021%	45	-46.2%	1,633	0.047%	39
Florida	649	0.011%	49	-20.4%	815	0.019%	47	-28.2%	1,135	0.045%	42
North Carolina	612	0.018%	26	-26.6%	834	0.030%	21	-25.8%	1,124	0.055%	27
Indiana	607	0.022%	11	-15.3%	717	0.028%	25	-35.3%	1,108	0.053%	30
Minnesota	523	0.023%	10	-24.0%	688	0.035%	15	-31.7%	1,007	0.066%	16
Wisconsin	501	0.020%	17	-34.7%	767	0.034%	16	-42.2%	1,327	0.075%	9
Virginia	481	0.015%	37	-12.7%	551	0.022%	42	-34.8%	845	0.048%	38
New Jersey	480	0.012%	45	-22.7%	621	0.018%	50	-24.5%	823	0.028%	48
Washington	456	0.019%	23	-23.4%	595	0.031%	20	-36.5%	937	0.070%	14
Maryland	455	0.018%	29	-3.0%	469	0.023%	41	-40.6%	790	0.050%	35
Missouri	446	0.018%	28	-27.8%	618	0.028%	28	-39.2%	1,016	0.055%	26
Tennessee	431	0.018%	27	-9.1%	474	0.023%	40	-40.7%	799	0.053%	31
Arizona	399	0.023%	9	15.3%	346	0.029%	23	-20.1%	433	0.068%	15
Iowa	394	0.028%	5	-24.5%	522	0.038%	11	-39.6%	864	0.077%	6
Georgia	364	0.011%	47	-24.5%	482	0.020%	46	-31.1%	700	0.039%	47
Oregon	347	0.025%	8	-22.5%	448	0.036%	13	-24.8%	596	0.071%	12
Louisiana	308	0.017%	31	-35.4%	477	0.028%	27	-29.1%	673	0.055%	25
South Carolina	274	0.016%	33	-37.2%	436	0.031%	18	12.1%	389	0.039%	45
Colorado	254	0.015%	40	-53.3%	544	0.038%	12	-16.3%	650	0.076%	8
Kansas	253	0.021%	14	-47.2%	479	0.043%	7	-29.8%	682	0.077%	5
Connecticut	246	0.014%	43	-50.1%	493	0.032%	17	-26.7%	673	0.052%	32
Kentucky	241	0.014%	42	-25.4%	323	0.021%	44	-46.6%	605	0.053%	29
Alabama	234	0.013%	44	-39.8%	389	0.024%	38	-31.5%	568	0.046%	41
Oklahoma	228	0.016%	36	-42.1%	394	0.029%	22	-33.9%	596	0.062%	18
Mississippi	216	0.020%	19	-15.3%	255	0.026%	33	-42.4%	443	0.059%	21
Utah	209	0.027%	6	-21.7%	267	0.043%	6	-40.7%	450	0.113%	1
Arkansas	183	0.017%	30	7.6%	170	0.018%	49	-47.5%	324	0.047%	40
Nebraska	153	0.019%	21	-20.3%	192	0.026%	31	-54.6%	423	0.072%	11
Idaho	134	0.028%	4	-36.5%	211	0.051%	3	36.1%	155	0.057%	22
Maine	133	0.022%	12	4.7%	127	0.026%	32	-14.8%	149	0.039%	46
North Dakota	117	0.039%	1	-2.5%	120	0.042%	8	-28.1%	167	0.078%	4
Vermont	111	0.037%	2	2.8%	108	0.045%	4	-30.8%	156	0.089%	2
New Mexico	106	0.016%	35	-55.6%	239	0.044%	5	-0.4%	240	0.071%	13
Rhode Island	105	0.020%	15	-7.9%	114	0.025%	35	-43.0%	200	0.052%	33
New Hampshire	89	0.015%	41	-25.2%	119	0.026%	30	-31.2%	173	0.057%	23
South Dakota	87	0.026%	7	-50.6%	176	0.057%	2	-15.0%	207	0.083%	3
Hawaii	83	0.015%	38	-46.1%	154	0.036%	14	-18.9%	190	0.065%	17
West Virginia	83	0.011%	46	-40.3%	139	0.019%	48	-60.5%	352	0.061%	19
Alaska	82	0.031%	3	17.1%	70	0.038%	9	169.2%	26	0.027%	49
Nevada	72	0.011%	48	-22.6%	93	0.022%	43	93.8%	48	0.023%	50
Montana	68	0.018%	24	-38.2%	110	0.031%	19	-42.1%	190	0.073%	10
Wyoming	44	0.020%	16	-74.9%	175	0.077%	1	76.8%	99	0.077%	7
Delaware	5	0.002%	50	-92.9%	70	0.025%	34	-42.6%	122	0.056%	24
District of Columbia**	148	0.043%		5.7%	140	0.044%		-33.0%	209	0.060%	

* To determine the influence of sampling error on the number of teachers of art, drama, and music at the postsecondary level for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 11SE do not overlap. After California, New York and Texas, rank differences between adjacent states are most often not statistically significant.

** Included to complete the United States.

Table 12. Other artists, performers, and related workers, not elsewhere classified by state of residence: 1970 to 1990

	Number 1990*	Percent of Labor Force in 1990	Rank of %	Percent Increase 1980-90	Number 1980	Percent of Labor Force in 1980	Rank of %	Percent Increase 1970-80	Number 1970	Percent of Labor Force in 1970	Rank of %
United States	93,421	0.076%		88.1%	49,653	0.048%		-6.5%	53,131	0.067%	
California	18,373	0.124%	3	116.4%	8,490	0.075%	5	-17.6%	10,300	0.129%	2
New York	10,486	0.118%	4	100.7%	5,225	0.066%	8	-34.6%	7,991	0.108%	4
Florida	6,695	0.109%	5	77.1%	3,780	0.090%	3	66.4%	2,271	0.090%	5
Texas	5,747	0.071%	17	156.0%	2,245	0.034%	33	-18.8%	2,766	0.065%	14
Illinois	3,285	0.057%	31	51.5%	2,168	0.040%	21	-20.7%	2,735	0.060%	18
New Jersey	2,950	0.072%	16	79.0%	1,648	0.047%	14	-25.1%	2,199	0.074%	11
Pennsylvania	2,700	0.047%	38	49.9%	1,801	0.034%	34	-22.4%	2,322	0.049%	25
Michigan	2,637	0.059%	27	70.9%	1,543	0.037%	28	-20.8%	1,948	0.057%	20
Ohio	2,600	0.050%	33	42.7%	1,822	0.037%	27	-15.4%	2,153	0.051%	23
Massachusetts	2,555	0.079%	11	80.9%	1,412	0.050%	11	-5.3%	1,491	0.063%	15
Virginia	2,473	0.078%	12	157.3%	961	0.039%	23	-11.6%	1,087	0.062%	17
Washington	2,163	0.089%	9	169.7%	802	0.042%	19	-2.9%	826	0.062%	16
Maryland	2,149	0.083%	10	72.2%	1,248	0.061%	10	-8.7%	1,367	0.086%	7
Georgia	1,767	0.054%	32	63.6%	1,080	0.044%	16	79.1%	603	0.033%	39
Minnesota	1,689	0.073%	15	132.6%	726	0.037%	30	33.5%	544	0.036%	37
Arizona	1,623	0.095%	7	74.7%	929	0.079%	4	61.6%	575	0.090%	6
Colorado	1,542	0.089%	8	62.8%	947	0.066%	7	63.8%	578	0.067%	12
Missouri	1,512	0.060%	25	82.8%	827	0.037%	29	6.7%	775	0.042%	30
North Carolina	1,344	0.040%	47	64.3%	818	0.030%	40	30.5%	627	0.031%	44
Indiana	1,233	0.045%	44	72.9%	713	0.028%	43	25.5%	568	0.027%	47
Wisconsin	1,220	0.049%	34	84.3%	662	0.029%	41	2.5%	646	0.037%	35
Tennessee	1,130	0.047%	37	43.0%	790	0.039%	24	41.1%	560	0.037%	34
Connecticut	1,079	0.061%	24	48.0%	729	0.047%	13	-27.3%	1,003	0.077%	10
Louisiana	1,051	0.059%	26	48.0%	710	0.041%	20	47.0%	483	0.040%	31
Oregon	1,042	0.074%	13	101.9%	516	0.042%	18	10.5%	467	0.056%	21
Hawaii	994	0.182%	1	94.5%	511	0.118%	2	43.1%	357	0.122%	3
Nevada	929	0.144%	2	38.0%	673	0.159%	1	63.3%	412	0.198%	1
Oklahoma	847	0.058%	29	136.6%	358	0.027%	45	-23.5%	468	0.048%	26
Alabama	826	0.045%	43	55.0%	533	0.033%	36	25.7%	424	0.034%	38
Kansas	816	0.067%	22	83.8%	444	0.040%	22	50.0%	296	0.033%	40
South Carolina	781	0.046%	41	108.8%	374	0.027%	44	29.9%	288	0.029%	45
Kentucky	724	0.043%	45	12.6%	643	0.043%	17	33.1%	483	0.043%	29
Iowa	600	0.043%	46	97.4%	304	0.022%	49	-28.1%	423	0.038%	33
Rhode Island	552	0.106%	6	222.8%	171	0.037%	26	-11.9%	194	0.050%	24
Utah	545	0.070%	18	132.9%	234	0.038%	25	-9.3%	258	0.065%	13
New Mexico	453	0.067%	21	15.9%	391	0.072%	6	33.9%	292	0.086%	8
New Hampshire	428	0.070%	19	87.7%	228	0.050%	12	-6.9%	245	0.081%	9
Arkansas	419	0.040%	48	100.5%	209	0.022%	48	-2.8%	215	0.031%	41
Nebraska	372	0.047%	40	106.7%	180	0.024%	46	-1.1%	182	0.031%	43
Mississippi	333	0.030%	50	10.6%	301	0.030%	39	150.8%	120	0.016%	50
West Virginia	328	0.045%	42	25.7%	261	0.035%	31	25.5%	208	0.036%	36
Maine	295	0.048%	35	89.1%	156	0.032%	38	-11.4%	176	0.046%	28
Montana	275	0.073%	14	164.4%	104	0.029%	42	28.4%	81	0.031%	42
Idaho	274	0.058%	28	97.1%	139	0.033%	35	36.3%	102	0.038%	32
Delaware	205	0.063%	23	19.9%	171	0.061%	9	64.4%	104	0.048%	27
Alaska	184	0.069%	20	192.1%	63	0.035%	32	12.5%	56	0.057%	19
Vermont	174	0.058%	30	54.0%	113	0.047%	15	17.7%	96	0.055%	22
South Dakota	157	0.047%	39	130.9%	68	0.022%	50	4.6%	65	0.026%	48
North Dakota	113	0.037%	49	21.5%	93	0.032%	37	151.4%	37	0.017%	49
Wyoming	105	0.048%	36	105.9%	51	0.023%	47	45.7%	35	0.027%	46
District of Columbia**	647	0.187%		124.7%	288	0.091%		-54.2%	629	0.181%	

* To determine the influence of sampling error on the number of artists, performers, and related workers elsewhere classified (other artists), for each state, use the corresponding standard error table. One state's estimate of the number of artists is likely to be statistically different from another if the confidence limits shown in Table 12SE do not overlap.

** Included to complete the United States.

Table 13. Changes since 1970 in regional distribution of artists in the United States: 1990

	Labor force*	Artists	Percent increase over the decade		Growth index**	% of artists in labor force in area	% of US artists in each region
			Labor force	Artists			
United States							
1990	122,473,499	1,671,278	18.1%	53.9%	1.00	1.365%	100.0%
1980	103,718,076	1,085,693	30.0%	47.3%	1.00	1.047%	100.0%
1970	79,801,605	736,960				0.923%	100.0%
Northeast							
1990	25,757,736	410,601	13.3%	45.5%	0.90	1.594%	24.6%
1980	22,725,483	282,165	13.7%	29.4%	0.91	1.242%	26.0%
1970	19,993,615	218,011				1.090%	29.6%
Midwest							
1990	29,603,473	341,129	8.2%	48.4%	1.12	1.152%	20.4%
1980	27,364,492	229,838	21.4%	29.6%	0.47	0.840%	21.2%
1970	22,535,875	177,282				0.787%	24.1%
South							
1990	41,030,503	470,565	23.0%	60.2%	1.04	1.147%	28.2%
1980	33,351,979	293,739	41.0%	64.1%	1.33	0.881%	27.1%
1970	23,646,862	179,052				0.757%	24.3%
West							
1990	26,081,787	448,983	28.6%	60.4%	0.89	1.721%	26.9%
1980	20,276,122	279,951	48.8%	72.2%	1.35	1.381%	25.8%
1970	13,625,253	162,615				1.193%	22.1%

* Includes only persons assigned a specific occupation code in 1990 and 1980.

** Calculated as Regional (Percent increase in Artists over the decade) minus (Percent increase in the Labor Force over the decade); divided by the National (Percent increase in Artists over the decade) minus (Percent increase in the Labor Force over the decade).

Table 14. Artists by Region for the United States in 1990, 1980, and 1970 and for Metropolitan Areas in 1990

UNITED STATES: Percent Distribution of Artists by Census Year

	All artists	Actors/ directors	Announcers	Architects	Authors	Dancers	Designers	Musicians/ composers	Painters et.al.	Photographers	Teachers of art	Other artists
Number of Artists all regions:												
1990	1,671,278	109,573	60,270	156,874	106,730	21,913	596,802	148,020	212,762	143,520	21,393	93,421
1980	1,085,693	67,180	46,986	107,693	45,748	13,194	338,374	140,556	153,162	94,762	28,385	49,653
1970	736,960	40,201	25,942	53,670	27,752	7,404	232,890	99,533	86,849	67,588	42,000	53,131
Percent of artists all Regions:												
1990	100%	6.6%	3.6%	9.4%	6.4%	1.3%	35.7%	8.9%	12.7%	8.6%	1.3%	5.6%
1980	100%	6.2%	4.3%	9.9%	4.2%	1.2%	31.2%	12.9%	14.1%	8.7%	2.6%	4.6%
1970	100%	5.5%	3.5%	7.3%	3.8%	1.0%	31.6%	13.5%	11.8%	9.2%	5.7%	7.2%
Northeast												
1990	100%	7.6%	2.5%	9.7%	7.1%	1.2%	36.0%	8.1%	13.2%	8.4%	1.1%	5.2%
1980	100%	7.5%	2.5%	8.1%	5.3%	1.3%	33.0%	12.4%	15.3%	8.2%	2.2%	4.1%
1970	100%	5.8%	2.3%	6.8%	4.5%	0.8%	34.8%	11.5%	13.5%	8.6%	4.3%	7.2%
Midwest												
1990	100%	4.5%	4.4%	8.3%	4.9%	1.1%	39.9%	8.5%	13.1%	8.9%	1.7%	4.8%
1980	100%	3.9%	5.3%	9.5%	2.7%	0.8%	34.1%	12.5%	13.9%	9.7%	3.4%	4.2%
1970	100%	4.2%	3.7%	6.9%	2.6%	0.7%	33.1%	13.9%	12.4%	9.6%	7.1%	5.9%
South												
1990	100%	5.0%	4.8%	9.3%	5.5%	1.5%	35.8%	10.0%	12.0%	8.8%	1.4%	5.8%
1980	100%	4.1%	6.3%	10.8%	3.0%	1.1%	31.4%	13.7%	12.6%	9.3%	2.7%	5.0%
1970	100%	4.8%	5.2%	7.8%	3.6%	0.8%	30.1%	14.7%	9.7%	9.6%	6.6%	7.1%
West												
1990	100%	8.8%	2.7%	10.1%	7.7%	1.4%	32.2%	8.6%	12.7%	8.3%	1.0%	6.3%
1980	100%	9.0%	3.3%	11.1%	5.6%	1.5%	26.7%	13.1%	14.6%	7.9%	2.3%	4.9%
1970	100%	7.1%	3.2%	7.7%	4.2%	1.8%	27.3%	14.6%	11.1%	9.0%	5.1%	8.8%

METROPOLITAN AREA PORTION OF THE UNITED STATES

	Labor force	All Artists	Actors/ directors	Announcers	Architects	Authors	Dancers	Designers	Musicians/ composers	Painters et. al.	Photographers	Teachers of art, drama, music	Other artists
NUMBER													
Total	97,210,626	1,473,197	103,274	45,110	145,641	95,888	20,530	521,625	130,433	185,356	125,928	17,021	82,391
Northeast	26,975,445	438,988	34,106	9,990	44,206	30,069	5,291	159,348	35,620	57,267	36,931	4,362	21,798
Midwest*	17,577,970	224,175	9,699	8,974	19,140	10,930	2,890	89,972	19,326	28,645	19,892	3,846	10,861
South*	30,115,859	399,445	21,320	16,450	40,137	23,124	6,490	139,207	39,870	48,990	35,345	5,071	23,441
West	22,541,352	410,589	38,149	9,696	42,158	31,765	5,859	133,098	35,617	50,454	33,760	3,742	26,291
PERCENT													
Total	79.4%	88.1%	94.3%	74.8%	92.8%	89.8%	93.7%	87.4%	88.1%	87.1%	87.7%	79.6%	88.2%
Northeast	22.0%	26.3%	31.1%	16.6%	28.2%	28.2%	24.1%	26.7%	24.1%	26.9%	25.7%	20.4%	23.3%
Midwest	14.4%	13.4%	8.9%	14.9%	12.2%	10.2%	13.2%	15.1%	13.1%	13.5%	13.9%	18.0%	11.6%
South	24.6%	23.9%	19.5%	27.3%	25.6%	21.7%	29.6%	23.3%	26.9%	23.0%	24.6%	23.7%	25.1%
West	18.4%	24.6%	34.8%	16.1%	26.9%	29.8%	26.7%	22.3%	24.1%	23.7%	23.5%	17.5%	28.1%

* South includes:
New Jersey portion of the Wilmington metropolitan area. (From Northeast)
Indiana part of Louisville, KY-IN metropolitan area. (From Midwest)
Ohio part of Huntington-Ashland, WV-KY-OH metropolitan areas. (From Midwest)
Ohio part of Parkersburg-Marietta, WV-OH metropolitan area. (From Midwest)
Ohio part of Wheeling, WV-OH metropolitan area. (From Midwest)

Midwest includes:
Kentucky part of Cincinnati, OH-KY-IN metropolitan area. (From South)
Kentucky part of Evansville, IN-KY metropolitan area. (From South)
West Virginia part of the Steubenville-Weirton, OH-WV metropolitan area. (From South)

Table 15. All Consolidated Metropolitan Statistical Areas (CMSAs*) Ranked by Percent of U.S. Artists in Each CMSA: 1990

	Labor force	Total artists	Percent of U.S. artists
Total United States	122,473,499	1,671,278	100.00%
NY-N'ern NJ-Long I., CT-NJ-NY CMSA	9,252,112	200,920	12.02%
Los Angeles-Anah'm-Riv'side, CA CMSA	7,326,510	162,323	9.71%
San Fran.-Oakland-San Jose, CA CMSA	3,384,873	66,683	3.99%
Chicago-Gary-Lake Cty, IL-IN-WI CMSA	4,130,089	60,810	3.64%
Phil.-Wil.-Trent., DE-NJ-PA CMSA	2,975,053	40,755	2.44%
Boston-Lawrence-Salem, MA-NH CMSA	2,311,098	40,644	2.43%
Detroit-Ann Arbor, MI CMSA	2,290,052	33,422	2.00%
Dallas-Fort Worth, TX CMSA	2,120,064	30,587	1.83%
Seattle-Tacoma, WA CMSA	1,363,726	24,987	1.50%
Houston-Galveston-Brazoria, TX CMSA	1,901,074	24,603	1.47%
Miami-Fort Lauderdale, FL CMSA	1,592,796	24,521	1.47%
Denver-Boulder, CO CMSA	1,025,615	17,863	1.07%
Cleveland-Akron-Lorain, OH CMSA	1,343,744	16,252	0.97%
Portland-Vancouver, OR-WA CMSA	775,237	13,288	0.80%
Pittsburgh-Beaver Valley, PA CMSA	1,033,403	12,699	0.76%
Cincinnati-Hamilton, OH-KY-IN CMSA	868,229	11,724	0.70%
Milwaukee-Racine, WI CMSA	824,047	10,707	0.64%
Prov.-Pawtuck.-Fall Riv., MA-RI CMSA	596,888	7,279	0.44%
Hartf'd-New Brit.-Middlet'n, CT CMSA	598,911	7,276	0.44%
Buffalo-Niagara Falls, NY CMSA	578,044	6,053	0.36%
Total in Consolitated areas	46,291,565	813,396	48.67%
Percent of the United States	37.80%	48.67%	

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* A CMSA consists of two or more adjacent metropolitan areas. There are 20 CMSAs in the United States.

Table 16. Metropolitan Statistical Areas (MSAs* and PMSAs**) with the Highest Percent of Artists: 1990

	Labor force	Total artists	Percent of United States	
			Labor force	Artists
New York, NY PMSA	4,170,806	123,876	3.91%	7.40%
Los Angeles-Long Beach, CA PMSA	4,473,143	119,044	3.65%	7.12%
Chicago, IL PMSA	3,128,696	50,156	2.55%	3.00%
Washington, DC-MD-VA MSA	2,259,197	44,241	1.84%	2.65%
Philadelphia, PA-NJ PMSA	2,428,047	34,174	1.98%	2.04%
Boston, MA PMSA	1,601,070	31,690	1.31%	1.90%
Detroit, MI PMSA	2,131,872	30,178	1.74%	1.81%
San Francisco, CA PMSA	905,138	26,470	0.74%	1.58%
Anaheim-Santa Ana, CA PMSA	1,347,338	25,428	1.10%	1.52%
Atlanta, GA MSA	1,574,679	24,878	1.29%	1.49%
Minneapolis-St. Paul, MN-WI MSA	1,389,347	23,139	1.13%	1.38%
Houston, TX PMSA	1,704,156	22,717	1.39%	1.36%
Seattle, WA PMSA	1,096,386	22,115	0.90%	1.32%
Dallas, TX PMSA	1,409,537	21,775	1.15%	1.30%
San Diego, CA MSA	1,210,110	21,405	0.99%	1.28%
Nassau-Suffolk, NY PMSA	1,382,550	21,063	1.13%	1.26%
Oakland, CA PMSA	1,096,926	18,495	0.90%	1.11%
Baltimore, MD MSA	1,246,486	15,834	1.02%	0.95%
Phoenix, AZ MSA	1,064,754	15,737	0.87%	0.94%
St. Louis, MO-IL MSA	1,223,120	15,573	1.00%	0.93%
Denver, CO PMSA	895,271	14,688	0.73%	0.88%
Miami-Hialeah, FL PMSA	963,431	14,505	0.79%	0.87%
Tampa-St. Pete.-Clearwater, FL MSA	970,024	13,663	0.79%	0.82%
Newark, NJ PMSA	974,337	13,129	0.80%	0.79%
San Jose, CA PMSA	841,783	12,995	0.69%	0.78%
Riverside-San Bernardino, CA PMSA	1,154,222	12,201	0.94%	0.73%
Bergen-Passaic, NJ PMSA	695,813	12,098	0.57%	0.72%
Pittsburgh, PA PMSA	952,105	11,955	0.78%	0.72%
Portland, OR PMSA	657,912	11,692	0.54%	0.70%
Kansas City, MO-KS MSA	818,919	11,329	0.67%	0.68%
Total in 30 Metropolitan areas	45,767,175	836,043	37.37%	50.02%
Total in all metropolitan areas	97,210,626	1,473,197	79.37%	88.15%

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* A "MSA" (Metropolitan Statistical Area) is an area with an urban core of 50,000 or more persons, usually bounded by the borders of one or more counties, or townships in New England. A MSA is not adjacent to another MSA.

** A "PMSA" (Primary Metropolitan Statistical Area) meets the "MSA" definition, except that it is geographically adjacent to another "PMSA." Therefore, in Census Bureau and OMB parlance about metropolitan areas, it qualifies to be included in a "CMSA" as defined in Table 15.

Table 17. Metropolitan Areas and Consolidated Metropolitan Areas with a High Percentage of Artists in the Labor Force: 1990

	Labor force	Artists in labor force	
		Number	Percent of labor force*
Santa Fe, NM MSA	61,886	2,094	3.38%
Norwalk, CT PMSA	74,546	2,481	3.33%
New York, NY PMSA	4,170,806	123,676	2.97%
San Francisco, CA PMSA	905,138	26,470	2.92%
Stamford, CT PMSA	112,155	3,058	2.73%
Los Angeles-Long Beach, CA PMSA	4,473,143	119,044	2.66%
Boulder-Longmont, CO PMSA	130,344	3,175	2.44%
Sarasota, FL MSA	118,368	2,648	2.24%
Santa Cruz, CA PMSA**	123,889	2,747	2.22%
Los Angeles-Anah'm-Riv'side, CA CMSA	7,326,510	162,323	2.22%
NY-N'ern NJ-Long I., CT-NJ-NY CMSA	9,252,112	200,920	2.17%
Santa Barb.-San. Mar.-Lompoc, CA MSA	189,331	4,005	2.12%
Bloomington, IN MSA**	55,486	1,147	2.07%
Nashville, TN MSA	525,143	10,827	2.06%
Ann Arbor, MI PMSA	158,180	3,244	2.05%
Seattle, WA PMSA	1,096,386	22,115	2.02%
Boston, MA PMSA**	1,601,070	31,690	1.98%
San Fran.-Oakland-San Jose, CA CMSA	3,384,873	66,683	1.97%
Washington, DC-MD-VA MSA	2,259,197	44,241	1.96%
Danbury, CT PMSA**	107,239	2,063	1.92%
Albuquerque, NM MSA	241,737	4,616	1.91%
Honolulu, HI MSA	408,304	7,780	1.91%
Anaheim-Santa Ana, CA PMSA**	1,347,338	25,428	1.89%
Santa Rosa-Petaluma, CA PMSA	202,179	3,784	1.87%
Orlando, FL MSA	580,287	10,815	1.86%
Austin, TX MSA	427,176	7,960	1.86%
Fort Collins-Loveland, CO MSA	98,877	1,838	1.86%
Seattle-Tacoma, WA CMSA	1,363,726	24,987	1.83%
Champaign-Urbana-Rantoul, IL MSA**	90,750	1,624	1.79%
Trenton, NJ PMSA	174,554	3,114	1.78%
Portland, OR PMSA	657,912	11,692	1.78%
San Diego, CA MSA	1,210,110	21,405	1.77%
Total selected metropolitan areas	41,748,642	938,209	2.25%
Percent of United States	34.06%	56.14%	
Total in all metropolitan areas	97,210,626	1,473,197	1.52%
Percent of the United States	79.37%	88.15%	
Total in United States	122,473,499	1,671,278	1.36%

* Areas selected for this table had 1.77% artists in the labor force, higher than the average of 1.76% for the sum of all Consolidated Metropolitan Statistical Areas.

** Areas listed on adjacent lines have about the same percentage of artists in the labor force. See Part II, Technical Issues, Table 17SE.

Table 18. Metropolitan Area of Residence for Artists in the United States: 1990

	Labor force	All Artists	Actors/ directors	Announ- cers	Architects	Authors	Dancers	Designers	Musicians/ composers	Painters et.al	Photog- raphers	Teachers of arts	Other artists
Total in United States	122,473,499	1,671,278	1 09,573	60,270	156,874	106,730	21,913	596,802	148,020	212,762	143,520	21,393	93,421
Total metropolitan areas	97,210,626	1,473,197	103,274	45,110	145,641	95,888	20,530	521,625	130,433	185,356	125,928	17,021	82,391
Percent of United States	79.37%	88.15%	94.25%	74.85%	92.84%	89.84%	93.69%	87.40%	88.12%	87.12%	87.74%	79.56%	88.19%
Total Consolidated metros	46,291,565	813,396	70,647	16,750	81,392	57,097	10,439	290,491	68,220	99,829	66,470	7,349	44,712
Percent of United States	37.80%	48.67%	64.47%	27.79%	51.88%	53.50%	47.64%	48.67%	46.09%	46.92%	46.31%	34.35%	47.86%
NAME OF METROPOLITAN AREA (MSA = Metropolitan Statistical Area, CMSA = Consolidated MSA, PMSA = Primary MSA)													
Abilene, TX MSA	53,494	672	45	76	63	22	12	214	95	70	49	17	9
Albany, GA MSA	50,161	416	16	38	8	23	0	188	44	30	28	5	36
Albany-Schenectady-Troy, NY MSA	449,707	5,477	343	191	686	480	62	1,822	409	736	399	69	280
Albuquerque, NM MSA	241,737	4,616	226	246	496	413	81	1,322	347	830	410	27	218
Alexandria, LA MSA	52,628	455	13	55	59	9	0	147	61	41	59	0	11
Allentown-Bethlehem, PA-NJ MSA	347,332	3,652	98	151	271	152	39	1,668	276	495	333	35	134
Altoona, PA MSA	58,456	376	21	26	22	27	2	179	38	33	23	0	5
Amarillo, TX MSA	93,467	1,142	71	65	76	57	13	365	106	161	161	25	42
Anchorage, AK MSA	119,300	1,742	115	119	200	140	67	385	132	284	203	43	54
Anderson, IN MSA	62,527	493	2	21	25	9	18	211	70	35	72	8	22
Anderson, SC MSA	73,651	549	23	31	54	0	0	290	90	33	14	0	14
Anniston, AL MSA	50,618	321	9	14	0	0	0	154	34	50	22	16	22
Appleton-Oshkosh-Neenah, WI MSA	165,229	1,970	80	65	137	53	0	847	171	322	170	39	86
Asheville, NC MSA	88,997	1,179	59	49	117	61	0	390	180	155	81	13	74
Athens, GA MSA	78,911	1,010	77	91	47	145	9	247	107	126	39	73	49
Atlanta, GA MSA	1,574,679	24,878	1,409	725	3,079	1,262	408	9,732	1,809	3,190	2,027	125	1,112
Atlantic City, NJ MSA	163,782	1,729	68	88	119	100	93	592	183	238	116	0	132
Augusta, GA-SC MSA	185,404	1,646	57	84	143	98	32	611	174	178	150	19	100
Austin, TX MSA	427,176	7,960	428	300	873	735	237	2,277	905	913	625	181	486
Bakersfield, CA MSA	235,332	1,936	69	149	162	83	0	686	175	247	203	40	172
Baltimore, MD MSA	1,246,486	15,834	931	414	1,895	715	193	5,815	1,132	2,314	1,276	239	910
Bangor, ME MSA	45,637	552	27	23	60	28	5	139	63	98	45	21	43
Baton Rouge, LA MSA	250,059	3,012	128	252	276	216	23	1,228	258	269	166	105	91
Battle Creek, MI MSA	63,660	640	44	32	22	46	3	274	44	65	60	19	31
Beaumont-Port Arthur, TX MSA	159,132	1,548	55	125	74	20	14	698	147	197	141	22	55
Bellingham, WA MSA	64,559	743	18	16	70	55	0	236	49	173	40	13	73
Benton Harbor, MI MSA	78,322	729	13	28	25	47	8	302	49	143	65	22	27
Billings, MT MSA	57,576	681	25	99	75	37	0	189	66	96	60	7	27
Biloxi-Gulfport, MS MSA	80,325	855	39	58	74	41	7	301	159	45	98	0	33
Binghamton, NY MSA	130,351	1,581	61	77	94	65	8	774	139	164	92	20	87
Birmingham, AL MSA	428,081	5,006	198	158	448	179	83	2,086	516	580	498	20	240
Bismarck, ND MSA	44,077	466	16	59	61	23	0	117	14	108	39	14	15
Bloomington, IN MSA	55,486	1,147	39	35	55	93	0	296	184	126	101	179	39
Bloomington-Normal, IL MSA	70,807	942	30	46	68	71	6	310	90	116	99	33	73
Boise City, ID MSA	108,531	1,626	97	100	181	98	0	633	73	107	221	31	85

Table 18. (Continued) Metropolitan Area of Residence for Artists in the United States: 1990

	Labor force	All Artists	Actors/ directors	Announ-cers	Architects	Authors	Dancers	Designers	Musicians/ composers	Painters et.al	Photog-raphers	Teachers of arts	Other artists
Boston-Lawrence-Salem, MA-NH	2,311,098	40,644	2,456	883	5,757	3,078	302	14,107	3,095	4,938	3,583	519	1,926
Boston, MA PMSA	1,601,070	31,690	2,015	659	4,981	2,548	211	10,419	2,495	3,771	2,655	414	1,522
Brockton, MA PMSA	100,081	912	35	8	84	15	6	413	108	78	133	7	25
Lawrence-Haverhill, MA-NH PMSA	208,154	2,665	125	156	181	106	26	1,158	180	323	226	30	154
Lowell, MA-NH PMSA	149,214	1,471	92	20	87	33	29	690	51	214	174	16	65
Nashua, NH PMSA	105,274	1,361	44	0	109	149	22	512	89	266	131	7	32
Salem-Gloucester, MA PMSA	147,305	2,545	145	40	315	227	8	915	172	286	264	45	128
Bradenton, FL MSA	91,727	1,234	44	59	66	73	33	416	183	155	97	28	80
Bremerton, WA MSA	83,734	1,213	49	33	166	152	6	378	99	186	108	0	36
Brownsville-Harlingen, TX MSA	96,367	804	32	104	43	16	17	205	129	58	85	15	100
Bryan-College Station, TX MSA	59,516	653	30	46	71	76	9	191	33	44	71	8	74
Buffalo-Niagara Falls, NY CMSA	578,044	6,053	167	332	482	193	71	2,315	601	818	599	98	377
Buffalo, NY PMSA	470,933	5,164	137	305	416	177	47	1,915	510	716	514	81	346
Niagara Falls, NY PMSA	107,111	889	30	27	66	16	24	400	91	102	85	17	31
Burlington, NC MSA	59,319	444	16	18	23	8	9	221	36	82	25	0	6
Burlington, VT MSA	75,197	1,179	36	44	75	71	0	491	103	190	99	31	39
Canton, OH MSA	187,000	1,513	33	52	64	26	38	662	185	195	201	8	49
Casper, WY MSA	30,260	280	26	34	35	15	0	36	8	52	53	8	13
Cedar Rapids, IA MSA	92,440	1,237	33	84	98	45	6	436	76	177	166	20	96
Champaign-Urbana-Rantoul, IL MSA	90,750	1,624	102	85	58	146	8	479	116	267	158	125	80
Charleston, SC MSA	231,459	2,160	85	111	251	82	35	716	269	329	189	21	72
Charleston, WV MSA	112,292	981	35	65	100	17	16	332	127	99	120	7	63
Charlo-Gast.-Rock Hill, NC-SC MSA	636,872	7,751	366	225	884	308	53	3,105	741	870	808	78	313
Charlottesville, VA MSA	68,250	1,074	60	44	136	110	7	254	21	192	115	24	111
Chattanooga, TN-GA MSA	212,735	2,352	83	160	106	94	11	941	239	267	306	35	110
Cheyenne, WY MSA	35,027	394	43	14	30	11	26	128	16	62	48	0	16
Chicago- Gary-Lake Cty, IL-IN-WI CMSA	4,130,089	60,810	3,888	1,327	6,937	3,617	501	23,094	4,740	8,415	5,192	715	2,384
Aurora-Elgin, IL PMSA	189,392	2,175	51	81	184	133	20	968	113	329	217	24	55
Chicago, IL PMSA	3,128,696	50,156	3,503	962	5,857	2,994	433	18,589	4,001	6,970	4,242	569	2,036
Gary-Hammond, IN PMSA	283,747	2,014	79	167	180	79	25	777	163	242	186	41	75
Joliet, IL PMSA	197,543	1,590	51	18	122	69	5	789	104	231	119	47	35
Kenosha, WI PMSA	63,849	731	30	51	33	19	7	350	65	107	48	9	12
Lake County, IL PMSA	266,862	4,144	174	48	561	323	11	1,621	294	536	380	25	171
Chico, CA MSA	77,781	1,222	80	73	108	77	9	343	107	106	141	35	143
Cinci'ti-Hamilton, OH-KY-IN CMSA	868,229	11,724	393	443	1,128	543	119	4,746	999	1,469	987	249	648
Cincinnati, OH-KY-IN PMSA	723,990	10,340	380	402	1,042	474	119	4,155	840	1,275	843	213	597
Hamilton-Middletown, OH PMSA	144,239	1,384	13	41	86	69	0	591	159	194	144	36	51
Clarksv'le-Hopkinsv'le, TN-KY MSA	64,368	523	16	65	5	0	7	159	36	128	93	0	14
Cleveland-Akron-Lorain, OH CMSA	1,343,744	16,252	542	505	1,499	654	267	6,508	1,655	2,179	1,420	276	747
Akron, OH PMSA	24,112	3,999	117	146	362	154	106	1,664	422	486	331	48	163
Cleveland, OH PMSA	890,333	11,167	402	306	1,078	445	153	4,369	1,114	1,554	1,009	185	552
Lorain-Elyria, OH PMSA	129,299	1,086	23	53	59	55	8	475	119	139	80	43	32

Table 18. (Continued) Metropolitan Area of Residence for Artists in the United States: 1990

	Labor force	All Artists	Actors/ directors	Announ-cers	Architects	Authors	Dancers	Designers	Musicians/ composer	Painter et.al	Photog-raphers	Teacher of arts	Other artists
Colorado Springs, CO MSA	185,016	2,894	129	87	278	191	60	970	252	464	303	0	160
Columbia, MO MSA	60,603	864	74	56	64	75	6	253	84	82	114	7	49
Columbia, SC MSA	236,308	2,825	261	126	246	160	19	1,056	226	359	233	71	68
Columbus, GA-AL MSA	100,764	963	42	61	64	50	24	312	148	75	100	22	65
Columbus, OH MSA	723,954	9,161	434	298	1,186	491	146	3,479	692	1,051	784	132	468
Corpus Christi, TX MSA	155,542	1,546	91	212	129	55	67	504	144	107	112	21	104
Cumberland, MD-WV MSA	43,698	335	0	53	6	6	13	157	9	42	36	0	13
Dallas-Fort Worth, TX CMSA	2,120,064	30,587	1,370	935	3,032	1,673	533	11,516	2,495	3,945	2,996	295	1,797
Dallas, TX PMSA	1,409,537	21,775	1,079	586	2,372	1,116	359	8,237	1,701	2,801	2,142	200	1,182
Fort Worth-Arlington, TX PMSA	710,527	8,812	291	349	660	557	174	3,279	794	1,144	854	95	615
Danville, VA MSA	53,759	252	6	19	11	10	0	107	39	20	25	0	15
Dav'prt-Rock Is.-Moline, IA-IL	171,158	1,784	91	120	62	62	19	732	203	162	220	38	75
Dayton-Springfield, OH MSA	463,329	5,283	212	125	297	241	60	2,215	415	830	526	120	242
Daytona Beach, FL MSA	164,356	2,028	66	62	178	108	33	578	296	462	144	17	84
Decatur, AL MSA	63,068	490	25	23	0	36	0	243	23	50	58	12	20
Decatur, IL MSA	55,766	371	7	29	13	18	8	124	24	62	52	9	25
Denver-Boulder, CO CMSA	1,025,615	17,863	981	471	2,104	1,415	222	5,930	1,443	2,605	1,506	108	1,078
Boulder-Longmont, CO PMSA	130,344	3,175	172	45	414	323	19	1,015	190	523	281	49	144
Denver, CO PMSA	895,271	14,688	809	426	1,690	1,092	203	4,915	1,253	2,082	1,225	59	934
Des Moines, IA MSA	218,256	2,745	150	171	247	119	33	872	228	499	289	21	116
Detroit-Ann Arbor, MI CMSA	2,290,052	33,422	1,399	807	2,384	1,225	496	16,470	2,623	3,453	2,612	322	1,631
Ann Arbor, MI PMSA	158,180	3,244	148	41	278	328	32	1,061	327	305	345	122	257
Detroit, MI PMSA	2,131,872	30,178	1,251	766	2,106	897	464	15,409	2,296	3,148	2,267	200	1,374
Dothan, AL MSA	59,953	518	39	18	54	44	0	217	48	52	33	0	13
Dubuque, IA MSA	43,784	560	5	51	22	22	0	316	7	42	61	8	26
Duluth, MN-WI MSA	109,398	1,182	87	120	108	51	10	340	95	144	98	37	92
Eau Claire, WI MSA	68,328	763	42	70	61	19	0	270	93	54	70	47	37
El Paso, TX MSA	237,565	2,867	156	213	195	108	88	842	214	439	330	42	240
Elkhart-Goshen, IN MSA	83,488	725	31	64	21	0	18	312	24	75	113	42	25
Elmira, NY MSA	43,909	415	12	27	8	18	0	212	19	36	68	0	15
Enid, OK MSA	25,875	143	0	3	16	3	0	43	8	9	34	7	20
Erie, PA MSA	130,700	1,314	62	72	86	45	0	503	105	179	173	41	48
Eugene-Springfield, OR MSA	139,054	2,032	95	123	193	226	46	604	145	269	178	89	64
Evansville, IN-KY MSA	140,174	1,494	54	137	59	49	37	612	156	166	106	19	99
Fargo-Moorhead, ND-MN MSA	82,875	1,357	79	143	109	94	10	315	150	150	192	65	50
Fayetteville, NC MSA	104,027	849	6	34	11	28	5	358	99	127	115	22	44
Fayetteville-Springdale, AR MSA	57,722	652	50	71	27	15	22	236	51	78	32	30	40
Fitchburg-Leominster, MA MSA	53,492	534	0	17	26	25	0	295	30	22	98	0	21
Flint, MI MSA	197,120	1,969	55	151	81	44	10	925	217	225	140	23	98
Florence, AL MSA	60,156	535	33	40	26	13	0	150	94	45	89	29	16
Florence, SC MSA	54,380	400	22	24	27	8	6	220	12	39	20	3	19
Fort Collins-Loveland, CO MSA	98,877	1,838	26	71	170	191	20	552	146	324	242	18	78
Fort Myers-Cape Coral, FL MSA	150,713	1,893	134	131	237	122	7	552	145	286	151	11	117

Table 18. (Continued) Metropolitan Area of Residence for Artists in the United States: 1990

	Labor force	All Artists	Actors/ directors	Announ-cers	Architects	Authors	Dancers	Designers	Musicians/ composers	Painters et.al	Photog-raphers	Teachers of arts	Other artists
Fort Pierce, FL MSA	108,631	1,011	47	83	98	93	17	366	53	111	89	0	54
Fort Smith, AR-OK MSA	82,579	676	28	129	48	28	0	170	43	58	110	9	53
Fort Walton Beach, FL MSA	61,945	798	0	50	42	42	35	292	97	78	86	0	76
Fort Wayne, IN MSA	192,346	2,292	63	97	207	85	24	1,062	233	286	152	0	83
Fresno, CA MSA	295,247	3,037	144	215	362	69	8	894	283	406	210	46	400
Gadsden, AL MSA	43,807	288	8	32	0	12	0	118	37	45	23	0	13
Gainesville, FL MSA	99,015	1,402	81	66	101	156	32	376	83	193	181	58	75
Glens Falls, NY MSA	56,629	557	5	31	26	34	0	234	32	84	71	24	16
Grand Forks, ND MSA	33,287	439	32	76	32	8	0	114	35	34	27	43	38
Grand Rapids, MI MSA	360,649	4,446	127	188	302	142	16	2,192	386	551	362	35	145
Great Falls, MT MSA	33,621	450	58	11	0	6	8	129	63	84	60	0	31
Greeley, CO MSA	66,572	560	35	13	30	30	2	183	44	95	36	34	58
Green Bay, WI MSA	103,517	1,271	85	57	100	62	0	546	93	163	111	13	41
Greens.,Wins.-Salem,High Pt., NC	522,162	6,464	261	281	241	214	95	2,817	559	859	693	130	314
Greenville-Spartanburg, SC MSA	333,316	4,318	165	96	413	151	1	2,015	283	385	445	157	207
Hagerstown, MD MSA	58,452	592	45	51	42	35	0	202	67	49	71	0	30
Harrisburg-Lebanon-Carlisle, PA	309,348	2,997	142	158	245	136	19	1,193	217	466	244	42	135
Hartford-New Britian-Middletown, CT CMSA	598,911	7,276	331	178	905	364	81	2,888	573	966	605	98	287
Bristol, CT PMSA	45,554	482	17	9	39	19	0	222	45	82	25	10	14
Hartford, CT PMSA	419,282	5,300	271	152	703	270	56	2,062	404	674	433	59	216
Middletown, CT PMSA	52,696	609	14	0	63	52	20	197	64	98	59	29	13
New Britain, CT PMSA	81,379	885	29	17	100	23	5	407	60	112	88	0	44
Hickory, NC MSA	124,958	830	2	41	8	38	13	458	80	69	95	0	26
Honolulu, HI MSA	408,304	7,780	336	320	1,244	312	451	1,984	712	895	700	64	762
Houma-Thibodaux, LA MSA	72,220	333	17	22	16	18	32	146	32	13	23	9	5
Houston-Galv'ton-Braz., TX CMSA	1,901,074	24,603	941	747	2,832	1,057	566	10,170	1,904	2,762	2,102	245	1,277
Brazoria, TX PMSA	90,820	837	23	34	23	35	20	400	56	127	69	0	50
Galveston-Texas City, TX PMSA	106,098	1,049	44	6	58	50	19	452	123	130	109	7	51
Houston, TX PMSA	1,704,156	22,717	874	707	2,751	972	527	9,318	1,725	2,505	1,924	238	1,176
Huntington-Ashland, WV-KY-OH MSA	128,451	961	90	75	26	22	0	406	146	67	93	13	23
Huntsville, AL MSA	125,555	1,547	85	85	99	105	39	633	95	188	120	30	68
Indianapolis, IN MSA	661,445	8,414	417	357	916	406	194	3,161	768	965	718	82	430
Iowa City, IA MSA	56,425	938	62	60	106	64	7	237	62	158	88	71	23
Jackson, MI MSA	68,980	771	25	41	24	30	27	399	94	52	53	9	17
Jackson, MS MSA	191,686	2,341	164	157	333	73	11	796	261	235	159	36	116
Jackson, TN MSA	37,516	356	20	68	14	0	0	90	68	52	20	6	18
Jacksonville, FL MSA	444,501	4,561	232	248	481	245	35	1,431	564	693	327	60	245
Jacksonville, NC MSA	42,162	347	16	18	6	26	43	87	56	40	30	6	19
Jamestown-Dunkirk, NY MSA	66,675	419	19	47	12	5	0	182	46	37	33	30	8
Janesville-Beloit, WI MSA	71,986	741	20	51	13	23	6	348	34	164	55	18	9
Johns. C'y-Kingsp't-Bris., TN-VA	206,862	1,785	135	136	92	64	7	561	261	158	265	53	53
Johnstown, PA MSA	98,576	733	37	46	46	25	0	316	80	66	83	0	34
Joplin, MO MSA	64,864	593	29	71	27	29	0	186	76	31	68	43	33
Kalamazoo, MI MSA	117,483	1,518	69	65	90	81	28	635	98	169	130	48	105

Table 18. (Continued) Metropolitan Area of Residence for Artists in the United States: 1990

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Kankakee, IL MSA	44,985	354	10	53	32	4	0	127	41	43	3	0	41
Kansas City, MO-KS MSA	818,919	11,329	482	228	1,149	625	165	4,105	708	2,048	1,115	158	546
Killeen-Temple, TX MSA	90,850	777	21	104	22	0	8	240	118	86	146	21	11
Knoxville, TN MSA	303,549	3,794	192	187	359	162	20	1,424	439	532	325	49	105
Kokomo, IN MSA	47,503	336	2	16	0	16	0	250	33	0	19	0	0
La Crosse, WI MSA	52,315	772	37	67	25	36	0	229	100	123	60	44	51
Lafayette, LA MSA	94,726	1,001	70	86	132	11	32	274	86	79	111	44	76
Lafayette-West Lafayette, IN MSA	66,811	660	26	40	82	47	0	241	55	42	76	5	46
Lake Charles, LA MSA	72,467	459	12	44	61	0	9	122	43	58	62	6	42
Lakeland-Winter Haven, FL MSA	183,981	1,620	67	48	49	33	27	605	155	226	189	13	208
Lancaster, PA MSA	221,589	2,583	80	90	292	117	16	1,076	110	406	275	18	103
Lansing-East Lansing, MI MSA	229,699	2,965	175	119	168	194	25	1,012	250	435	315	90	182
Laredo, TX MSA	50,115	407	5	51	13	0	0	157	74	30	56	13	8
Las Cruces, NM MSA	57,687	577	55	52	10	31	0	150	30	127	81	0	41
Las Vegas, NV MSA	394,797	6,675	324	270	310	277	772	1,663	1,162	617	451	57	772
Lawrence, KS MSA	43,224	753	22	36	70	45	0	216	76	151	84	26	27
Lawton, OK MSA	41,625	400	30	73	2	10	0	83	49	71	61	0	21
Lewiston-Auburn, ME MSA	45,286	434	18	24	7	11	0	205	42	62	39	16	10
Lexington-Fayette, KY MSA	185,645	2,550	159	125	342	166	20	794	195	273	258	44	174
Lima, OH MSA	72,024	489	26	24	23	7	0	215	72	25	90	0	7
Lincoln, NE MSA	121,411	1,761	50	91	160	87	8	675	171	253	113	64	89
Little Rock-N. Little Rock, AR	254,178	2,778	261	136	282	72	43	979	247	328	267	57	106
Longview-Marshall, TX MSA	74,330	589	21	45	23	15	0	204	63	83	71	18	46
Los Angeles-Anaheim-Riverside, CA CMSA	7,326,510	162,323	26,200	2,562	12,494	13,532	1,783	49,419	14,723	16,992	12,693	1,046	10,879
Anaheim-Santa Ana, CA PMSA	1,347,338	25,428	1,096	319	3,398	1,347	317	10,071	1,536	3,361	2,037	275	1,671
Los Angeles-Long Beach, CA	4,473,143	119,044	24,048	1,660	7,613	11,127	1,251	32,614	11,638	11,464	9,166	625	7,838
Oxnard-Ventura, CA PMSA	351,807	5,650	501	132	449	412	96	1,902	457	812	483	39	367
Riverside-San Bernardino, CA	1,154,222	12,201	555	451	1,034	646	119	4,832	1,092	1,355	1,007	107	1,003
Louisville, KY-IN MSA	478,729	5,621	303	246	404	241	121	2,065	809	634	504	65	229
Lubbock, TX MSA	109,118	1,203	61	77	103	68	0	300	140	136	160	63	95
Lynchburg, VA MSA	70,279	725	20	66	47	60	0	270	51	92	80	11	28
Macon-Warner Robins, GA MSA	132,951	1,258	76	132	106	40	21	331	174	190	91	33	64
Madison, WI MSA	214,471	3,671	193	139	356	285	43	1,242	268	503	367	77	198
Manchester, NH MSA	82,771	864	46	18	49	29	14	398	87	88	118	0	17
Mansfield, OH MSA	59,984	423	16	42	30	27	12	192	12	53	34	0	5
Mcallen-Edinburg-Mission, TX MSA	139,126	915	45	62	43	34	0	243	267	28	116	10	67
Medford, OR MSA	67,389	937	102	34	116	141	0	233	92	120	60	0	39
Melbourne-Titusv'e-Palm Bay, FL	193,883	2,333	89	97	101	117	62	885	262	288	207	38	187
Memphis, TN-AR-MS MSA	474,544	5,541	247	235	548	281	82	2,055	660	635	499	97	202
Merced, CA MSA	72,931	604	9	41	60	10	4	222	62	66	70	0	60
Miami-Fort Lauderdale, FL CMSA	1,592,796	24,521	1,653	668	2,749	972	526	8,690	2,704	2,697	1,935	109	1,818
Ft. Laud.-Holly.-Pomp. Bch.	629,365	10,016	490	322	873	415	221	3,703	1,124	1,226	821	28	793
Miami-Hialeah, FL PMSA	963,431	14,505	1,163	346	1,876	557	305	4,987	1,580	1,471	1,114	81	1,025

Table 18. (Continued) Metropolitan Area of Residence for Artists in the United States: 1990

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Midland, TX MSA	51,627	548	6	45	54	13	6	219	72	41	48	19	25
Milwaukee-Racine, WI CMSA	824,047	10,707	467	370	896	473	145	4,454	788	1,673	842	113	486
Milwaukee, WI PMSA	735,237	9,692	432	359	868	420	145	3,862	737	1,543	770	113	443
Racine, WI PMSA	88,810	1,015	35	11	28	53	0	592	51	130	72	0	43
Minneapolis-St. Paul, MN-WI	1,389,347	23,139	1,241	494	2,315	1,835	255	8,601	2,095	3,016	1,803	292	1,192
Mobile, AL MSA	212,455	2,300	120	110	163	98	35	773	299	324	201	11	166
Modesto, CA MSA	166,479	1,352	27	69	115	45	17	533	98	186	119	28	115
Monroe, LA MSA	62,472	629	49	85	34	20	15	216	63	44	73	0	30
Montgomery, AL MSA	135,895	1,499	106	103	226	22	17	467	181	167	125	16	69
Muncie, IN MSA	58,833	739	41	15	15	29	21	274	115	57	61	65	46
Muskegon, MI MSA	70,822	614	14	58	27	19	29	281	30	24	95	11	26
Naples, FL MSA	71,011	1,109	45	14	173	23	0	462	112	161	41	0	78
Nashville, TN MSA	525,143	10,827	638	341	644	456	101	2,610	3,351	1,190	856	123	517
New Bedford, MA MSA	84,843	893	56	29	26	39	0	386	90	118	104	0	45
New Haven-Meriden, CT MSA	285,121	4,429	144	92	783	312	21	1,629	358	540	331	62	157
New London-Norwich, CT-RI MSA	132,675	1,888	87	33	193	81	9	930	67	245	137	6	100
New Orleans, LA MSA	558,685	6,914	449	332	614	272	105	1,865	871	955	818	106	527
NY-Northern NJ-Long Island, CT-NJ-NY CMSA	9,252,112	200,920	21,620	3,122	17,900	15,996	2,925	68,941	17,004	25,591	15,756	1,349	10,716
Bergen-Passaic, NJ PMSA	695,813	12,098	813	241	1,131	557	82	4,948	1,205	1,504	954	85	578
Bridgeport-Milford, CT PMSA	243,396	3,132	128	89	244	170	13	1,477	182	438	255	12	124
Danbury, CT PMSA	107,239	2,063	113	34	155	177	34	837	123	306	174	10	100
Jersey City, NJ PMSA	291,300	5,127	469	162	429	288	124	2,037	292	599	395	30	302
Mid'sex-Som'set-Hunt'd'n, NJ	579,280	7,868	356	94	965	407	57	3,153	501	1,213	594	103	425
Monmouth-Ocean, NJ PMSA	480,736	5,631	247	106	454	219	76	2,694	357	633	543	18	284
Nassau-Suffolk, NY PMSA	1,382,550	21,063	1,006	483	2,156	1,056	241	8,384	1,379	3,084	1,976	148	1,150
New York, NY PMSA	4,170,806	123,676	16,983	1,532	10,200	11,549	2,124	37,411	11,666	15,058	9,240	817	7,096
Newark, NJ PMSA	974,337	13,129	935	255	1,363	767	144	5,277	920	1,764	1,141	106	457
Norwalk, CT PMSA	74,546	2,481	221	34	263	289	14	879	98	427	195	0	61
Orange County, NY PMSA	148,954	1,594	89	37	201	112	2	586	120	268	126	0	53
Stamford, CT PMSA	112,155	3,058	260	55	339	405	14	1,258	161	297	163	20	86
Norf'k-Vir. B'ch-Newp't News, VA	627,433	8,455	454	376	814	412	209	3,189	759	886	666	88	602
Ocala, FL MSA	79,866	707	10	37	42	36	5	203	71	101	90	0	112
Odessa, TX MSA	53,518	415	33	47	24	7	27	117	67	41	9	18	25
Oklahoma City, OK MSA	478,489	5,485	324	258	508	342	167	1,457	578	786	707	95	263
Olympia, WA MSA	79,560	1,116	24	45	208	64	11	254	125	184	105	7	89
Omaha, NE-IA MSA	318,967	3,473	170	148	420	209	99	1,212	246	484	255	31	199
Orlando, FL MSA	580,287	10,815	815	273	879	385	422	3,321	1,278	1,226	693	21	1,502
Owensboro, KY MSA	41,818	276	12	0	29	0	0	91	47	19	56	14	8
Panama City, FL MSA	56,758	625	20	22	32	35	33	175	75	101	55	13	64
Parkersburg-Marietta, WV-OH MSA	68,735	618	14	54	26	15	0	305	30	51	105	0	18
Pascagoula, MS MSA	51,999	606	15	35	14	10	0	355	89	52	26	10	0
Pensacola, FL MSA	152,612	1,789	82	41	121	45	80	505	232	352	92	34	205
Peoria, IL MSA	162,751	2,128	89	123	225	93	26	855	161	252	237	11	56

Table 18. (Continued) Metropolitan Area of Residence for Artists in the United States: 1990

	Labor force	All Artists	Actors/ directors	Announ- cers	Architects	Authors	Dancers	Designers	Musicians/ composers	Painters et.al	Photog- raphers	Teachers of arts	Other artists
Phil.-Wil.-Trent., DE-NJ-PA	2,975,053	40,755	1,798	1,021	4,819	2,471	626	15,298	2,944	5,630	3,630	457	2,061
Philadelphia, PA-NJ PMSA	2,428,047	34,174	1,501	878	4,063	1,903	562	12,882	2,568	4,786	3,021	365	1,645
Trenton, NJ PMSA	174,554	3,114	225	44	431	394	54	872	163	403	226	78	224
Vinel'd-Millv'e-Bridgeton, NJ	65,283	424	0	0	47	0	0	196	43	54	52	0	32
Wilmington, DE-NJ-MD PMSA	307,169	3,043	72	99	278	174	10	1,348	170	387	331	14	160
Phoenix, AZ MSA	1,064,754	15,737	639	459	1,709	966	273	5,612	1,481	2,026	1,361	186	1,025
Pine Bluff, AR MSA	36,114	212	0	19	18	8	0	39	56	9	42	21	0
Pittsb'h-Beaver Val'y, PA CMSA	1,033,403	12,699	638	485	1,174	642	130	5,108	1,178	1,442	1,211	205	486
Beaver County, PA PMSA	81,298	744	28	5	29	41	0	314	116	111	75	11	14
Pittsburgh, PA PMSA	952,105	11,955	610	480	1,145	601	130	4,794	1,062	1,331	1,136	194	472
Pittsfield, MA MSA	39,844	592	5	25	41	116	2	186	26	102	52	14	23
Portland, ME MSA	118,175	1,934	169	137	212	152	11	544	113	281	256	13	46
Portland-Vancouver, OR-WA CMSA	775,237	13,288	788	316	1,410	825	196	4,826	1,154	1,759	1,137	154	723
Portland, OR PMSA	657,912	11,692	737	279	1,275	734	176	4,168	988	1,590	973	138	634
Vancouver, WA PMSA	117,325	1,596	51	37	135	91	20	658	166	169	164	16	89
Portsmouth-Dover-Roch., NH-ME	120,893	1,555	81	35	151	90	28	514	152	243	139	15	107
Poughkeepsie, NY MSA	133,047	2,026	96	87	246	128	19	730	74	328	206	18	94
Providence-Pawtucket-Fall River, MA-RI CMSA	596,888	7,279	395	127	576	369	67	2,890	508	893	733	105	616
Fall River, MA-RI PMSA	79,543	535	21	0	45	33	0	203	27	62	103	0	41
Paw.-Woons.-Attleb., RI-MA	177,141	1,771	117	21	89	60	16	783	106	270	142	20	147
Providence, RI PMSA	340,204	4,973	257	106	442	276	51	1,904	375	561	488	85	428
Provo-Orem, UT MSA	110,314	1,734	77	52	75	186	14	579	81	299	153	82	136
Pueblo, CO MSA	51,353	316	29	25	12	31	7	98	21	43	36	0	14
Raleigh-Durham, NC MSA	419,920	6,302	286	258	712	648	51	2,111	650	728	460	168	230
Rapid City, SD	38,097	476	11	41	27	21	0	167	52	47	73	0	37
Reading, PA MSA	173,441	1,730	45	34	153	20	40	796	102	268	164	51	57
Redding, CA MSA	63,734	621	13	55	31	27	0	198	88	138	28	0	43
Reno, NV MSA	147,757	2,011	99	136	181	153	86	583	303	221	115	8	126
Richland-Kennewick-Pasco, WA MSA	72,580	741	39	49	24	37	15	323	55	59	90	3	47
Richmond-Petersburg, VA MSA	460,132	5,769	251	236	646	418	70	2,210	554	688	371	74	251
Roanoke, VA MSA	116,819	1,432	55	62	94	92	0	485	175	254	171	23	21
Rochester, MN MSA	59,181	591	22	40	35	58	2	245	38	77	41	2	31
Rochester, NY MSA	515,760	6,953	339	131	413	314	56	2,942	594	938	581	94	551
Rockford, IL MSA	147,244	1,497	69	62	127	44	23	587	147	181	176	20	61
Sacramento, CA MSA	733,190	10,566	366	343	1,638	714	156	3,411	809	1,406	983	100	640
Saginaw-Bay City-Midland, MI MSA	184,896	1,860	69	136	73	37	49	829	268	183	161	8	47
St. Cloud, MN MSA	99,331	1,070	4	149	74	36	0	324	139	157	123	32	32
St. Joseph, MO MSA	38,731	271	23	21	18	0	0	110	27	24	37	11	0
St. Louis, MO-IL MSA	1,223,120	15,573	587	522	1,732	772	172	5,871	1,366	2,219	1,329	167	836
Salem, OR MSA	130,713	1,168	56	25	119	64	16	378	113	178	37	55	127
Salinas-Seaside-Monterey, CA MSA	158,694	2,422	128	46	321	232	6	690	173	388	225	13	200
Salt Lake City-Ogden, UT MSA	502,493	6,554	265	167	547	333	143	2,397	341	1,097	872	57	335

Table 18. (Continued) Metropolitan Area of Residence for Artists in the United States: 1990

	Labor force	All Artists	Actors/ directors	Announ- cers	Architects	Authors	Dancers	Designers	Musicians/ composers	Painters et.al	Photog- raphers	Teachers of arts	Other artists
San Angelo, TX MSA	44,992	480	35	40	7	0	7	129	32	99	95	0	36
San Antonio, TX MSA	591,797	7,051	340	390	777	360	129	1,990	747	985	676	120	537
San Diego, CA MSA	1,210,110	21,405	870	458	2,970	1,434	256	7,376	1,750	2,847	1,858	198	1,388
San Francisco-Oakland-San Jose, CA CMSA	3,384,873	66,683	3,320	937	8,770	6,188	537	24,443	5,137	8,093	5,193	629	3,436
Oakland, CA PMSA	1,096,926	18,495	757	288	2,882	1,829	144	6,219	1,676	2,230	1,358	180	932
San Francisco, CA PMSA	905,138	26,470	1,816	307	3,861	2,542	243	8,602	2,200	3,434	1,932	252	1,281
San Jose, CA PMSA	841,783	12,995	422	205	1,026	1,152	105	6,183	600	1,186	1,177	99	840
Santa Cruz, CA PMSA	123,889	2,747	72	45	185	229	11	1,198	201	470	198	52	86
Santa Rosa-Petaluma, CA PMSA	202,179	3,784	214	47	588	282	28	1,433	244	458	285	46	159
Vallejo-Fairfield-Napa, CA	214,958	2,192	39	45	228	154	6	808	216	315	243	0	138
Santa Barb.-San. Mar.-Lompoc, CA	189,331	4,005	196	137	375	368	0	1,283	372	524	407	57	286
Santa Fe, NM MSA	61,886	2,094	51	52	211	250	2	426	112	704	200	9	77
Sarasota, FL MSA	118,368	2,648	92	62	144	231	25	1,002	356	391	149	9	187
Savannah, GA MSA	112,280	1,201	71	102	128	76	19	367	195	78	109	22	34
Scranton-Wilkes-Barre, PA MSA	345,673	3,102	148	184	187	98	20	1,294	293	383	339	48	108
Seattle-Tacoma, WA CMSA	1,363,726	24,987	1,300	514	3,544	1,810	346	8,678	1,952	3,509	1,738	257	1,339
Seattle, WA PMSA	1,096,386	22,115	1,167	412	3,349	1,642	294	7,765	1,597	3,015	1,522	178	1,174
Tacoma, WA PMSA	267,340	2,872	133	102	195	168	52	913	355	494	216	79	165
Sharon, PA MSA	53,094	467	3	29	14	16	0	176	47	116	17	29	20
Sheboygan, WI MSA	54,158	577	15	20	43	30	0	270	40	69	85	0	5
Sherman-Denison, TX MSA	44,709	309	16	12	0	10	0	146	33	27	39	6	20
Shreveport, LA MSA	146,294	1,481	78	141	78	24	16	414	230	222	176	6	96
Sioux City, IA-NE MSA	57,046	394	26	66	15	14	0	100	51	38	51	0	33
Sioux Falls, SD MSA	68,095	839	49	107	52	55	8	152	94	168	106	21	27
South Bend-Mishawaka, IN MSA	123,590	1,221	64	78	106	41	15	454	117	86	140	79	41
Spokane, WA MSA	168,093	2,391	150	100	181	117	48	837	215	262	280	59	142
Springfield, IL MSA	101,353	992	45	46	111	40	10	370	111	102	114	0	43
Springfield, MO MSA	123,348	1,573	89	106	116	101	35	493	156	204	180	14	79
Springfield, MA MSA	266,606	2,810	124	63	207	230	57	1,057	210	470	212	37	143
State College, PA MSA	60,932	1,014	72	46	107	87	7	338	79	115	76	30	57
Steubenville-Weirton, OH-WV MSA	58,767	392	0	35	18	0	0	206	48	11	54	12	8
Stockton, CA MSA	212,200	1,401	70	84	141	36	8	548	102	135	125	48	104
Syracuse, NY MSA	329,771	4,139	203	258	564	194	17	1,439	432	466	345	18	203
Tallahassee, FL MSA	124,719	1,787	140	88	124	215	0	462	159	261	146	99	93
Tampa-St. Pete.-Clearwater, FL	970,024	13,663	582	435	1,325	614	311	5,028	1,301	1,910	1,275	97	785
Terre Haute, IN MSA	60,215	633	35	28	16	22	13	298	51	47	75	32	16
Texarkana, TX-Texarkana, AR MSA	52,746	352	0	52	16	0	6	172	46	38	16	6	0
Toledo, OH MSA	299,588	3,313	244	165	247	111	29	1,434	244	320	234	108	177
Topeka, KS MSA	83,514	842	57	51	95	110	12	300	40	91	47	7	32
Tucson, AZ MSA	311,010	5,209	284	264	580	324	134	1,407	461	944	386	71	354
Tulsa, OK MSA	355,239	3,889	182	174	394	203	77	1,228	528	473	331	38	261
Tuscaloosa, AL MSA	69,261	754	28	79	0	49	18	190	107	120	68	68	27
Tyler, TX MSA	71,293	777	20	49	45	19	9	207	167	112	88	19	42

Table 18. (Continued) Metropolitan Area of Residence for Artists in the United States: 1990

	Labor force	All Artists	Actors/ directors	Announcers	Architects	Authors	Dancers	Designers	Musicians/ composers	Painters et.al	Photographers	Teachers of arts	Other artists
Utica-Rome, NY MSA	142,595	1,111	37	91	88	32	5	476	110	115	104	16	37
Victoria, TX MSA	34,354	268	9	48	0	8	14	49	30	38	41	0	31
Visalia-Tulare-Porterville, CA	131,626	980	35	62	37	8	0	347	226	8==7	65	33	80
Waco, TX MSA	87,538	1,072	65	47	17	37	21	368	152	130	93	62	80
Washington, DC-MD-VA MSA	2,259,197	44,241	3,117	1,288	6,395	5,857	456	12,578	2,569	5,276	3,434	441	2,830
Waterbury, CT MSA	116,681	1,035	51	23	112	86	16	417	35	175	85	7	28
Waterloo-Cedar Falls, IA MSA	71,029	794	58	43	40	27	0	348	60	68	95	19	36
Wausau, WI MSA	59,894	485	26	49	26	15	0	170	38	52	59	22	28
West Palm'-Boca Rat.-Delray', FL	406,613	6,515	279	116	911	363	64	2,643	452	835	474	42	336
Wheeling, WV-OH MSA	68,163	505	9	70	31	31	6	172	55	43	61	3	24
Wichita, KS MSA	248,757	2,779	114	178	262	142	48	971	254	308	304	39	159
Wichita Falls, TX MSA	54,404	571	26	56	51	17	17	163	41	43	100	0	57
Williamsport, PA MSA	55,972	454	7	69	15	27	0	158	49	69	40	2	18
Wilmington, NC MSA	63,118	866	85	81	54	12	0	304	57	144	73	17	39
Worcester, MA MSA	227,449	2,181	104	36	139	83	30	987	146	277	241	12	126
Yakima, WA MSA	85,202	715	46	72	17	19	0	219	104	57	57	9	115
York, PA MSA	225,007	1,886	39	82	159	40	2	777	191	312	215	11	58
Youngstown-Warren, OH MSA	220,365	1,850	55	108	143	27	18	789	221	241	160	22	66
Yuba City, CA MSA	49,451	406	12	8	18	22	23	155	34	55	32	0	47
Yuma, AZ MSA	41,414	207	18	17	17	0	0	71	7	16	25	0	36

*Adjoining metropolitan areas are listed under their larger Consolidated area. For example, Salem-Gloucester, MA is listed under Boston-Lawrence-Salem, MA-NH.

Table 19. All artists, professional occupations, and the labor force by sex, race, Hispanic, age, and years of school completed for the United States: 1990, 1980, and 1970

ARTIST CHARACTERISTICS	ARTIST OCCUPATIONS NUMBER 1990	1980	1970	PERCENT 1990	1980	1970	PERCENT CHANGE 70-90	80-90	70-80
SEX									
Total	1,671,277	1,085,693	736,960	100.0%	100.0%	100.0%	126.8%	53.9%	47.3%
Male	931,111	674,627	509,938	55.7%	62.1%	69.2%	82.6%	38.0%	32.3%
Female	740,166	411,066	227,022	44.3%	37.9%	30.8%	226.0%	80.1%	81.1%
RACE									
Total	1,671,277	1,085,693	736,960	100.0%	100.0%	100.0%	126.8%	53.9%	47.3%
White	1,499,635	997,796	699,564	89.7%	91.9%	94.9%	114.4%	50.3%	42.6%
Black	76,777	47,212	24,232	4.6%	4.3%	3.3%	216.8%	62.6%	94.8%
Other	94,865	40,685	13,164	5.7%	3.7%	1.8%	620.6%	133.2%	209.1%
HISPANIC									
Total	1,671,277	1,085,693	736,960	100.0%	100.0%	100.0%	126.8%	53.9%	47.3%
Hispanic	91,927	41,840	21,115	5.5%	3.9%	2.9%	335.4%	119.7%	98.2%
Other, not Hispanic	1,579,350	1,043,853	715,845	94.5%	96.1%	97.1%	120.6%	51.3%	45.8%
AGE									
Total	1,671,277	1,085,693	736,959	100.0%	100.0%	100.0%	126.8%	53.9%	47.3%
16 to 24 years	195,184	192,831	127,986	11.7%	17.8%	17.4%	52.5%	1.2%	50.7%
25 to 34 years	541,378	394,381	205,784	32.4%	36.3%	27.9%	163.1%	37.3%	91.6%
35 to 54 years	728,661	358,284	301,115	43.6%	33.0%	40.9%	142.0%	103.4%	19.0%
55 years and over	206,054	140,197	102,074	12.3%	12.9%	13.9%	101.9%	47.0%	37.3%
YEARS OF SCHOOL COMPLETED									
Total	1,671,276	1,085,693	736,960	100.0%	100.0%	100.0%	126.8%	53.9%	47.3%
Elementary 1 to 8	22,040	25,372	30,294	1.3%	2.3%	4.1%	-27.2%	-13.1%	-16.2%
Some high school	82,699	69,119	77,000	4.9%	6.4%	10.4%	7.4%	19.6%	-10.2%
High school graduate	250,239	251,307	210,953	15.0%	23.1%	28.6%	18.6%	-0.4%	19.1%
Some college	566,565	302,404	191,208	33.9%	27.9%	25.9%	196.3%	87.4%	58.2%
College graduate	543,407	229,015	111,728	32.5%	21.1%	15.2%	386.4%	137.3%	105.0%
College postgraduate	206,326	208,476	115,777	12.3%	19.2%	15.7%	78.2%	-1.0%	80.1%

PROFESSIONAL CHARACTERISTICS	PROFESSIONAL OCCUPATIONS NUMBER 1990	1980	1970	PERCENT 1990	1980	1970	PERCENT CHANGE 70-90	80-90	70-80
SEX									
Total	16,647,688	12,275,140	8,800,210	100.0%	100.0%	100.0%	89.2%	35.6%	39.5%
Male	7,706,256	6,247,708	4,897,893	46.3%	50.9%	55.7%	57.3%	23.3%	27.6%
Female	8,941,432	6,027,432	3,902,317	53.7%	49.1%	44.3%	129.1%	48.3%	54.5%
RACE									
Total	16,647,688	12,275,140	8,800,210	100.0%	100.0%	100.0%	89.2%	35.6%	39.5%
White	14,493,629	10,937,561	8,187,362	87.1%	89.1%	93.0%	77.0%	32.5%	33.6%
Black	1,237,944	867,345	477,926	7.4%	7.1%	5.4%	159.0%	42.7%	81.5%
Other	916,115	470,234	134,922	5.5%	3.8%	1.5%	579.0%	94.8%	248.5%
HISPANIC									
Total	16,647,688	12,275,140	8,800,210	100.0%	100.0%	100.0%	89.2%	35.6%	39.5%
Hispanic	662,578	331,429	172,554	4.0%	2.7%	2.0%	284.0%	99.9%	92.1%
Other, not Hispanic	15,985,110	11,943,711	8,627,656	96.0%	97.3%	98.0%	85.3%	33.8%	38.4%
AGE									
Total	16,647,688	12,275,140	8,800,210	100.0%	100.0%	100.0%	89.2%	35.6%	39.5%
16 to 24 years	1,165,338	1,277,842	1,339,855	7.0%	10.4%	15.2%	13.0%	-8.8%	-4.6%
25 to 34 years	4,802,858	4,452,193	2,510,375	28.9%	36.3%	28.5%	91.3%	7.9%	77.4%
35 to 54 years	8,585,213	4,964,067	3,630,128	51.6%	40.4%	41.3%	136.5%	72.9%	36.7%
55 years and over	2,094,279	1,581,038	1,319,851	12.6%	12.9%	15.0%	58.7%	32.5%	19.8%

Table 19. (continued) All artists, professional occupations, and the labor force by sex, race, Hispanic, age, and years of school completed for the United States: 1990, 1980, and 1970

YEARS OF SCHOOL COMPLETED									
Total	16,647,688	12,275,140	8,800,210	100.0%	100.0%	100.0%	89.2%	35.6%	39.5%
Elementary 1 to 8	63,261	111,704	161,832	0.4%	0.9%	1.8%	-60.9%	-43.4%	-31.0%
Some high school	239,727	274,963	397,423	1.4%	2.2%	4.5%	-39.7%	-12.8%	-30.8%
High school graduate	1,125,384	1,234,879	1,587,907	6.8%	10.1%	18.0%	-29.1%	-8.9%	-22.2%
Some college	3,504,338	2,283,176	1,740,163	21.0%	18.6%	19.8%	101.4%	53.5%	31.2%
College graduate	5,871,640	3,227,134	2,437,623	35.3%	26.3%	27.7%	140.9%	81.9%	32.4%
College postgraduate	5,843,338	5,143,284	2,475,262	35.1%	41.9%	28.1%	136.1%	13.6%	107.8%

LABOR FORCE CHARACTERISTICS	TOTAL LABOR FORCE								
	NUMBER			PERCENT			PERCENT CHANGE		
	1990	1980	1970	1990	1980	1970	70-90	80-90	70-80
SEX									
Total	122,473,499	104,057,985	79,801,605	100.0%	100.0%	100.0%	53.5%	17.7%	30.4%
Male	66,431,987	59,756,221	49,454,750	54.2%	57.4%	62.0%	34.3%	11.2%	20.8%
Female	56,041,512	44,301,764	30,346,855	45.8%	42.6%	38.0%	84.7%	26.5%	46.0%
RACE									
Total	122,473,499	104,057,985	79,801,605	100.0%	100.0%	100.0%	53.5%	17.7	30.4%
30.4%									
White	100,993,233	88,959,778	70,957,612	82.5%	85.5%	88.9%	42.3%	13.5%	25.4%
Black	12,775,917	10,457,064	7,862,984	10.4%	10.1%	9.9%	62.5%	22.2%	33.0%
Other	8,704,349	4,641,143	981,009	7.1%	4.5%	1.2%	787.3%	87.5%	373.1%
HISPANIC									
Total	122,473,499	104,057,985	79,801,605	100.0%	100.0%	100.0%	53.5%	17.7%	30.4%
Hispanic	9,834,622	5,946,221	3,062,686	8.0%	5.7%	3.8%	221.1%	65.4%	94.2%
Other, not Hispanic	112,638,877	98,111,764	76,738,919	92.0%	94.3%	96.2%	46.8%	14.8%	27.9%
AGE									
Total	122,473,499	104,057,985	79,801,605	100.0%	100.0%	100.0%	53.5%	17.7%	30.4%
16 to 24 years	20,318,353	23,111,278	15,768,895	16.6%	22.2%	19.8%	28.9%	-12.1%	46.6%
25 to 34 years	35,076,410	28,761,627	16,652,692	28.6%	27.6%	20.9%	110.6%	22.0%	72.7%
35 to 54 years	51,659,322	36,888,556	32,881,299	42.2%	35.5%	41.2%	57.1%	40.0%	12.2%
55 years and over	15,419,414	15,296,524	14,498,718	12.6%	14.7%	18.2%	6.4%	0.8%	5.5%
YEARS OF SCHOOL COMPLETED									
Total	122,473,499	104,057,985	79,801,605	100.0%	100.0%	100.0%	53.5%	17.7%	30.4%
Elementary 1 to 8	5,731,760	8,969,798	14,333,281	4.7%	8.6%	18.0%	-60.0%	-36.1%	-37.4%
Some high school	16,362,459	16,794,959	16,955,482	13.4%	16.1%	21.2%	-3.5%	-2.6%	-0.9%
High school graduate	36,448,113	39,885,426	27,972,352	29.8%	38.3%	35.1%	30.3%	-8.6%	42.6%
Some college	36,264,403	19,771,017	10,500,092	29.6%	19.0%	13.2%	245.4%	83.4%	88.3%
College graduate	18,101,583	9,916,726	5,611,740	14.8%	9.5%	7.0%	222.6%	82.5%	76.7%
College postgraduate	9,565,180	8,720,059	4,428,659	7.8%	8.4%	5.5%	116.0%	9.7%	96.9%

Table 20. Detailed artist occupations by sex, race, and Hispanic: United States, 1990, 1980, and 1970

OCCUPATION and YEAR		NUMBER BY SEX		NUMBER BY RACE			NUMBER BY HISPANIC	
	Total	Male	Female	White	Black	Other	Hispanic	Not Hisp.
Actors and directors								
1990	109,573	67,787	41,786	98,110	7,951	3,512	5,386	104,187
1980	67,180	44,049	23,131	61,397	3,916	1,867	2,243	64,937
1970	40,201	26,339	13,862	37,275	2,346	580	1,404	38,797
Announcers								
1990	60,269	47,752	12,517	52,552	5,434	2,283	3,286	56,983
1980	46,986	38,392	8,594	41,853	3,874	1,259	2,019	44,967
1970	25,942	24,291	1,651	25,069	638	235	453	25,489
Architects								
1990	156,874	133,212	23,662	141,906	4,429	10,539	8,006	148,868
1980	107,693	98,743	8,950	99,131	3,013	5,549	4,353	103,340
1970	53,670	51,534	2,136	50,796	1,273	1,601	938	52,732
Authors								
1990	106,730	53,863	52,867	100,777	3,162	2,791	2,046	104,684
1980	45,748	25,409	20,339	43,533	1,247	968	947	44,801
1970	27,752	19,578	8,174	27,193	448	111	328	27,424
Dancers								
1990	21,913	5,097	16,816	18,649	1,632	1,632	1,600	20,313
1980	13,194	3,350	9,844	10,996	1,155	1,043	787	12,407
1970	7,404	1,381	6,023	6,371	639	394	475	6,929
Designers								
1990	596,802	265,299	331,503	538,400	21,204	37,198	32,296	564,506
1980	338,374	169,604	168,770	314,379	10,942	13,053	13,218	325,156
1970	232,890	148,572	84,318	223,504	4,445	4,941	6,815	226,075
Musicians and composers								
1990	148,020	99,409	48,611	129,428	11,166	7,426	9,615	138,405
1980	140,556	99,065	41,491	126,298	9,290	4,968	6,192	134,364
1970	99,533	64,767	34,766	91,785	6,810	938	3,419	96,114
Painters, sculptors, craft-artists, and artists printmakers								
1990	212,762	101,067	111,695	193,395	7,696	11,671	10,360	202,402
1980	153,162	79,445	73,717	142,209	4,896	6,057	5,625	147,537
1970	86,849	52,827	34,022	83,542	1,638	1,669	2,268	84,581
Photographers								
1990	143,520	100,169	43,351	127,658	8,167	7,695	8,268	135,252
1980	94,762	72,496	22,266	86,695	4,854	3,213	3,750	91,012
1970	67,588	57,597	9,991	64,513	2,072	1,003	2,260	65,328
Teachers of art, drama, and music*								
1990	21,393	10,591	10,802	19,551	924	918	654	20,739
1980	28,385	14,718	13,667	26,262	1,478	645	480	27,905
1970	42,000	25,310	16,690	40,226	1,445	329	347	41,653
Other artists								
1990	93,421	46,865	46,556	79,209	5,012	9,200	10,410	83,011
1980	49,653	29,356	20,297	45,043	2,547	2,063	2,226	47,427
1970	53,131	37,742	15,389	49,290	2,478	1,363	2,408	50,723
Total artists								
1990	1,671,277	931,111	740,166	1,499,635	76,777	94,865	91,927	1,579,350
1980	1,085,693	674,627	411,066	997,796	47,212	40,685	41,840	1,043,853
1970	736,960	509,938	227,022	699,564	24,232	13,164	21,115	715,845

* See Table 38 for details on a 1980 to 1990 decrease of teachers who specify subject taught and an increase of teachers who do not specify subject taught.

Table 21. Percent distribution of artist occupations by sex, race, and Hispanic: United States, 1990, 1980, and 1970

OCCUPATION and YEAR	PERCENT DISTRIBUTION							
	Total	Male	Female	White	Black	Other	Hispanic	Not Hisp.
Actors and directors								
1990	100.0%	61.9%	38.1%	89.5%	7.3%	3.2%	4.9%	95.1%
1980	100.0%	65.6%	34.4%	91.4%	5.8%	2.8%	3.3%	96.7%
1970	100.0%	65.5%	34.5%	92.7%	5.8%	1.4%	3.5%	96.5%
Announcers								
1990	100.0%	79.2%	20.8%	87.2%	9.0%	3.8%	5.5%	94.5%
1980	100.0%	81.7%	18.3%	89.1%	8.2%	2.7%	4.3%	95.7%
1970	100.0%	93.6%	6.4%	96.6%	2.5%	0.9%	1.7%	98.3%
Architects								
1990	100.0%	84.9%	15.1%	90.5%	2.8%	6.7%	5.1%	94.9%
1980	100.0%	91.7%	8.3%	92.0%	2.8%	5.2%	4.0%	96.0%
1970	100.0%	96.0%	4.0%	94.6%	2.4%	3.0%	1.7%	98.3%
Authors								
1990	100.0%	50.5%	49.5%	94.4%	3.0%	2.6%	1.9%	98.1%
1980	100.0%	55.5%	44.5%	95.2%	2.7%	2.1%	2.1%	97.9%
1970	100.0%	70.5%	29.5%	98.0%	1.6%	0.4%	1.2%	98.8%
Dancers								
1990	100.0%	23.3%	76.7%	85.1%	7.4%	7.4%	7.3%	92.7%
1980	100.0%	25.4%	74.6%	83.3%	8.8%	7.9%	6.0%	94.0%
1970	100.0%	18.7%	81.3%	86.0%	8.6%	5.3%	6.4%	93.6%
Designers								
1990	100.0%	44.5%	55.5%	90.2%	3.6%	6.2%	5.4%	94.6%
1980	100.0%	50.1%	49.9%	92.9%	3.2%	3.9%	3.9%	96.1%
1970	100.0%	63.8%	36.2%	96.0%	1.9%	2.1%	2.9%	97.1%
Musicians and composers								
1990	100.0%	67.2%	32.8%	87.4%	7.5%	5.0%	6.5%	93.5%
1980	100.0%	70.5%	29.5%	89.9%	6.6%	3.5%	4.4%	95.6%
1970	100.0%	65.1%	34.9%	92.2%	6.8%	0.9%	3.4%	96.6%
Painters, sculptors, craft-artists, and artist printmakers								
1990	100.0%	47.5%	52.5%	90.9%	3.6%	5.5%	4.9%	95.1%
1980	100.0%	51.9%	48.1%	92.8%	3.2%	4.0%	3.7%	96.3%
1970	100.0%	60.8%	39.2%	96.2%	1.9%	1.9%	2.6%	97.4%
Photographers								
1990	100.0%	69.8%	30.2%	88.9%	5.7%	5.4%	5.8%	94.2%
1980	100.0%	76.5%	23.5%	91.5%	5.1%	3.4%	4.0%	96.0%
1970	100.0%	85.2%	14.8%	95.5%	3.1%	1.5%	3.3%	96.7%
Teachers of art, drama, and music								
1990	100.0%	49.5%	50.5%	91.4%	4.3%	4.3%	3.1%	96.9%
1980	100.0%	51.9%	48.1%	92.5%	5.2%	2.3%	1.7%	98.3%
1970	100.0%	60.3%	39.7%	95.8%	3.4%	0.8%	0.8%	99.2%
Other artists								
1990	100.0%	50.2%	49.8%	84.8%	5.4%	9.8%	11.1%	88.9%
1980	100.0%	59.1%	40.9%	90.7%	5.1%	4.2%	4.5%	95.5%
1970	100.0%	71.0%	29.0%	92.8%	4.7%	2.6%	4.5%	95.5%
Total artists								
1990	100.0%	55.7%	44.3%	89.7%	4.6%	5.7%	5.5%	94.5%
1980	100.0%	62.1%	37.9%	91.9%	4.3%	3.7%	3.9%	96.1%
1970	100.0%	69.2%	30.8%	94.9%	3.3%	1.8%	2.9%	97.1%

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Table 22. Percent change from census to census of artist occupations by sex, race, and Hispanic: United States, 1990, 1980, and 1970

OCCUPATION and YEAR	PERCENT CHANGE IN THE NUMBERS							
	Total	Male	Female	White	Black	Other	Hispanic	Not Hisp.
Actors and directors								
1970-90	172.6%	157.4%	201.4%	163.2%	238.9%	505.5%	283.5%	168.5%
1980-90	63.1%	53.9%	80.6%	59.8%	103.0%	88.1%	140.1%	60.4%
1970-80	67.1%	67.2%	66.9%	64.7%	66.9%	221.9%	59.7%	67.4%
Announcers								
1970-90	132.3%	96.6%	658.1%	109.6%	751.7%	871.5%	626.0%	123.6%
1980-90	28.3%	24.4%	45.6%	25.6%	40.3%	81.3%	62.8%	26.7%
1970-80	81.1%	58.1%	420.5%	67.0%	507.2%	435.7%	346.1%	76.4%
Architects								
1970-90	192.3%	158.5%	1007.8%	179.4%	247.9%	558.3%	753.2%	182.3%
1980-90	45.7%	34.9%	164.4%	43.1%	47.0%	89.9%	83.9%	44.1%
1970-80	100.7%	91.6%	319.0%	95.2%	136.7%	246.6%	363.9%	96.0%
Authors								
1970-90	284.6%	175.1%	546.8%	270.6%	605.8%	2414.4%	524.5%	281.7%
1980-90	133.3%	112.0%	159.9%	131.5%	153.6%	188.3%	116.1%	133.7%
1970-80	64.8%	29.8%	148.8%	60.1%	178.3%	772.1%	189.0%	63.4%
Dancers								
1970-90	196.0%	269.1%	179.2%	192.7%	155.4%	314.2%	237.0%	193.1%
1980-90	66.1%	52.1%	70.8%	69.6%	41.3%	56.5%	103.3%	63.7%
1970-80	78.2%	142.6%	63.4%	72.6%	80.8%	164.7%	65.8%	79.1%
Designers								
1970-90	156.3%	78.6%	293.2%	140.9%	377.0%	652.8%	373.9%	149.7%
1980-90	76.4%	56.4%	96.4%	71.3%	93.8%	185.0%	144.3%	73.6%
1970-80	45.3%	14.2%	100.2%	40.7%	146.2%	164.2%	94.0%	43.8%
Musicians and composers								
1970-90	48.7%	53.5%	39.8%	41.0%	64.0%	691.7%	181.2%	44.0%
1980-90	5.3%	0.3%	17.2%	2.5%	20.2%	49.5%	55.3%	3.0%
1970-80	41.2%	53.0%	19.3%	37.6%	36.4%	429.6%	81.1%	39.8%
Painters, sculptors, craft-artists, and artist printmakers								
1970-90	145.0%	91.3%	228.3%	131.5%	369.8%	599.3%	356.7%	139.3%
1980-90	38.9%	27.2%	51.5%	36.0%	57.2%	92.7%	84.2%	37.2%
1970-80	76.4%	50.4%	116.7%	70.2%	198.9%	262.9%	148.0%	74.4%
Photographers								
1970-90	112.3%	73.9%	333.9%	97.9%	294.2%	667.2%	265.8%	107.0%
1980-90	51.5%	38.2%	94.7%	47.2%	68.3%	139.5%	120.5%	48.6%
1970-80	40.2%	25.9%	122.9%	34.4%	134.3%	220.3%	65.9%	39.3%
Teachers of art, drama, and music								
1970-90	-49.1%	-58.2%	-35.3%	-51.4%	-36.1%	179.0%	88.7%	-50.2%
1980-90	-24.6%	-28.0%	-21.0%	-25.6%	-37.5%	42.3%	36.3%	-25.7%
1970-80	-32.4%	-41.8%	-18.1%	-34.7%	2.3%	96.0%	38.5%	-33.0%
Other artists								
1970-90	75.8%	24.2%	202.5%	60.7%	102.3%	575.0%	332.3%	63.7%
1980-90	88.1%	59.6%	129.4%	75.9%	96.8%	346.0%	367.7%	75.0%
1970-80	-6.5%	-22.2%	31.9%	-8.6%	2.8%	51.4%	-7.6%	-6.5%
Total artists								
1970-90	126.8%	82.6%	226.0%	114.4%	216.8%	620.6%	335.4%	120.6%
1980-90	53.9%	38.0%	80.1%	50.3%	62.6%	133.2%	119.7%	51.3%
1970-80	47.3%	32.3%	81.1%	42.6%	94.8%	209.1%	98.1%	45.8%

Table 23. Artist occupations by years of school completed and by age: United States, 1990, 1980, and 1970

OCCUPATION and YEAR	YEARS OF SCHOOL COMPLETED							AGE				
	Total	1-8	9-11	12	13-15	16	17+	Total	16-24	25-34	35-54	55+
Actors and directors												
1990	109,573	314	2,441	9,153	32,587	49,249	15,828	109,573	11,625	42,058	45,963	9,927
1980	67,180	1,013	1,827	9,889	18,686	21,844	13,921	67,180	10,306	28,397	22,321	6,156
1970	40,201	1,441	2,744	9,879	13,103	8,232	4,802	40,201	9,330	12,554	13,995	4,322
Announcers												
1990	60,269	540	5,782	11,161	27,589	13,255	1,943	60,269	18,659	21,484	16,691	3,435
1980	46,986	870	4,454	12,037	17,112	9,323	3,190	46,986	19,785	16,926	8,080	2,196
1970	25,942	242	1,937	7,719	10,474	4,177	1,392	25,942	8,960	8,567	7,114	1,302
Architects												
1990	156,874	157	1,144	6,639	23,126	82,522	43,287	156,874	7,204	52,734	76,093	20,842
1980	107,693	575	3,056	8,950	14,784	20,896	59,433	107,693	9,089	41,017	42,942	14,645
1970	53,670	1,100	1,530	4,518	7,172	12,144	27,206	53,670	3,036	14,631	26,560	9,443
Authors												
1990	106,730	323	1,583	4,854	20,188	46,457	33,324	106,730	5,365	24,467	53,968	22,930
1980	45,748	618	698	4,027	7,954	15,150	17,303	45,748	2,432	13,356	19,256	10,704
1970	27,752	406	731	4,928	7,419	8,177	6,092	27,752	1,922	7,067	13,673	5,090
Dancers												
1990	21,913	712	3,994	6,421	6,712	3,315	759	21,913	8,832	8,937	3,636	508
1980	13,194	546	2,404	5,031	3,011	1,334	869	13,194	5,981	5,435	1,455	323
1970	7,404	565	1,950	2,939	1,356	367	226	7,404	3,843	2,628	791	141
Designers												
1990	596,802	9,680	33,597	110,829	228,872	178,508	35,316	596,802	65,089	199,290	265,116	67,308
1980	338,374	9,593	24,362	96,710	102,046	69,370	36,294	338,374	54,480	114,017	124,729	45,147
1970	232,890	13,556	28,641	78,579	61,837	33,504	16,772	232,890	27,772	70,834	103,807	30,476
Musicians and composers												
1990	148,020	3,993	9,637	22,992	49,018	38,135	24,245	148,020	17,068	46,342	61,298	23,311
1980	140,556	4,603	12,928	34,776	42,488	23,750	22,011	140,556	31,196	58,301	33,589	17,470
1970	99,533	4,408	16,852	27,768	28,390	11,641	10,474	99,533	33,031	22,893	28,831	14,778
Painters, sculptors, craft-artists, and artist printmakers												
1990	212,762	2,460	8,820	32,707	84,426	65,590	18,759	212,762	22,006	65,211	96,865	28,681
1980	153,162	2,550	7,185	34,364	50,373	37,602	21,088	153,162	25,055	55,392	51,729	20,987
1970	86,849	2,455	6,687	28,675	26,791	15,575	6,666	86,849	14,665	23,342	36,568	12,274
Photographers												
1990	143,520	1,545	8,610	28,000	57,960	40,694	6,712	143,520	22,387	46,822	60,610	13,702
1980	94,762	2,054	6,558	28,703	30,580	18,056	8,810	94,762	20,505	33,958	28,427	11,872
1970	67,588	3,220	10,298	29,999	16,891	5,341	1,840	67,588	12,700	16,022	28,492	10,375
Teachers of art, drama, and music												
1990	21,393	6	53	586	2,780	4,249	13,719	21,393	1,873	4,756	11,075	3,688
1980	28,385	214	273	1,305	2,669	4,111	19,813	28,385	2,688	9,449	12,118	4,130
1970	42,000	136	239	1,638	3,241	4,777	31,969	42,000	4,026	12,692	19,141	6,141
Other artists												
1990	93,421	2,310	7,037	16,897	33,309	21,433	12,434	93,421	15,076	29,278	37,346	11,721
1980	49,653	2,736	5,374	15,515	12,701	7,582	5,745	49,653	11,314	18,134	13,639	6,566
1970	53,131	2,766	5,390	14,312	14,534	7,792	8,337	53,131	8,700	14,555	22,145	7,731
Total artists												
1990	1,671,277	22,040	82,699	250,239	566,565	543,407	206,326	1,671,277	195,184	541,378	728,661	206,054
1980	1,085,693	25,372	69,119	251,307	302,404	229,015	208,476	1,085,693	192,831	394,381	358,284	140,197
1970	736,960	30,294	77,000	210,953	191,208	111,728	115,777	736,960	127,986	205,784	301,115	102,074

(1970 data obtained by distributing the EEO data totals according to percentages based on a 4% Artist Extract File reported in *Artists in the Workforce: 1950 to 1984*, Constance F. Citro and Deirdre A. Gaquin, Appendix Tables D1-1-70, and D1-2-70, National Endowment for the Arts. This source shows how the definition of artist occupations changed between 1970 and 1980.)

Table 24. Percent distribution of artist occupations by years of school completed and by age: United States, 1990, 1980, and 1970

OCCUPATION and YEAR	PERCENT DISTRIBUTION											
	YEARS OF SCHOOL COMPLETED							AGE				
	Total	1-8	9-11	12	13-15	16	17+	Total	16-24	25-34	35-54	55+
Actors and directors												
1990	100.0%	0.3%	2.2%	8.4%	29.7%	44.9%	14.4%	100.0%	10.6%	38.4%	41.9%	9.1%
1980	100.0%	1.5%	2.7%	14.7%	27.8%	32.5%	20.7%	100.0%	15.3%	42.3%	33.2%	9.2%
1970	100.0%	3.6%	6.8%	24.6%	32.6%	20.5%	11.9%	100.0%	23.2%	31.2%	34.8%	10.8%
Announcers												
1990	100.0%	0.9%	9.6%	18.5%	45.8%	22.0%	3.2%	100.0%	31.0%	35.6%	27.7%	5.7%
1980	100.0%	1.9%	9.5%	25.6%	36.4%	19.8%	6.8%	100.0%	42.1%	36.0%	17.2%	4.7%
1970	100.0%	0.9%	7.5%	29.8%	40.4%	16.1%	5.4%	100.0%	34.5%	33.0%	27.4%	5.0%
Architects												
1990	100.0%	0.1%	0.7%	4.2%	14.7%	52.6%	27.6%	100.0%	4.6%	33.6%	48.5%	13.3%
1980	100.0%	0.5%	2.8%	8.3%	13.7%	19.4%	55.2%	100.0%	8.4%	38.1%	39.9%	13.6%
1970	100.0%	2.0%	2.9%	8.4%	13.4%	22.6%	50.7%	100.0%	5.7%	27.3%	49.5%	17.6%
Authors												
1990	100.0%	0.3%	1.5%	4.5%	18.9%	43.5%	31.2%	100.0%	5.0%	22.9%	50.6%	21.5%
1980	100.0%	1.4%	1.5%	8.8%	17.4%	33.1%	37.8%	100.0%	5.3%	29.2%	42.1%	23.4%
1970	100.0%	1.5%	2.6%	17.8%	26.7%	29.5%	22.0%	100.0%	6.9%	25.5%	49.3%	18.3%
Dancers												
1990	100.0%	3.2%	18.2%	29.3%	30.6%	15.1%	3.5%	100.0%	40.3%	40.8%	16.6%	2.3%
1980	100.0%	4.1%	18.2%	38.1%	22.8%	10.1%	6.6%	100.0%	45.3%	41.2%	11.0%	2.5%
1970	100.0%	7.6%	26.3%	39.7%	18.3%	5.0%	3.1%	100.0%	51.9%	35.5%	10.7%	1.9%
Designers												
1990	100.0%	1.6%	5.6%	18.6%	38.3%	29.9%	5.9%	100.0%	10.9%	33.4%	44.4%	11.3%
1980	100.0%	2.8%	7.2%	28.6%	30.2%	20.5%	10.7%	100.0%	16.1%	33.7%	36.9%	13.3%
1970	100.0%	5.8%	12.3%	33.7%	26.6%	14.4%	7.2%	100.0%	11.9%	30.4%	44.6%	13.1%
Musicians and composers												
1990	100.0%	2.7%	6.5%	15.5%	33.1%	25.8%	16.4%	100.0%	11.5%	31.3%	41.4%	15.7%
1980	100.0%	3.3%	9.2%	24.7%	30.2%	16.9%	15.7%	100.0%	22.2%	41.5%	23.9%	12.4%
1970	100.0%	4.4%	16.9%	27.9%	28.5%	11.7%	10.5%	100.0%	33.2%	23.0%	29.0%	14.8%
Painters, sculptors, craft-artists, and artist printmakers												
1990	100.0%	1.2%	4.1%	15.4%	39.7%	30.8%	8.8%	100.0%	10.3%	30.6%	45.5%	13.5%
1980	100.0%	1.7%	4.7%	22.4%	32.9%	24.6%	13.8%	100.0%	16.4%	36.2%	33.8%	13.7%
1970	100.0%	2.8%	7.7%	33.0%	30.8%	17.9%	7.7%	100.0%	16.9%	26.9%	42.1%	14.1%
Photographers												
1990	100.0%	1.1%	6.0%	19.5%	40.4%	28.4%	4.7%	100.0%	15.6%	32.6%	42.2%	9.5%
1980	100.0%	2.2%	6.9%	30.3%	32.3%	19.1%	9.3%	100.0%	21.6%	35.8%	30.0%	12.5%
1970	100.0%	4.8%	15.2%	44.4%	25.0%	7.9%	2.7%	100.0%	18.8%	23.7%	42.2%	15.3%
Teachers of art, drama, and music												
1990	100.0%	0.0%	0.2%	2.7%	13.0%	19.9%	64.1%	100.0%	8.8%	22.2%	51.8%	17.2%
1980	100.0%	0.8%	1.0%	4.6%	9.4%	14.5%	69.8%	100.0%	9.5%	33.3%	42.7%	14.6%
1970	100.0%	0.3%	0.6%	3.9%	7.7%	11.4%	76.1%	100.0%	9.6%	30.2%	45.6%	14.6%
Other artists												
1990	100.0%	2.5%	7.5%	18.1%	35.7%	22.9%	13.3%	100.0%	16.1%	31.3%	40.0%	12.5%
1980	100.0%	5.5%	10.8%	31.2%	25.6%	15.3%	11.6%	100.0%	22.8%	36.5%	27.5%	13.2%
1970	100.0%	5.2%	10.1%	26.9%	27.4%	14.7%	15.7%	100.0%	16.4%	27.4%	41.7%	14.6%
Total artists												
1990	100.0%	1.3%	4.9%	15.0%	33.9%	32.5%	12.3%	100.0%	11.7%	32.4%	43.6%	12.3%
1980	100.0%	2.3%	6.4%	23.1%	27.9%	21.1%	19.2%	100.0%	17.8%	36.3%	33.0%	12.9%
1970	100.0%	4.1%	10.4%	28.6%	25.9%	15.2%	15.7%	100.0%	17.4%	27.9%	40.9%	13.9%

* (1970 data obtained by distributing the EEO data totals according to percentages based on a 4% Artist Extract File reported in *Artists in the Workforce: 1950 to 1984*, Constance F. Citro and Deirdre A. Gaquin, Appendix Tables D1-1-70, and D1-2-70, National Endowment for the Arts. This source shows how the definition of artist occupations changed between 1970 and 1980.)

Table 25. Percent change from census to census in artist occupations by years of school completed and by age: United States, 1990, 1980, and 1970

OCCUPATION and YEAR	PERCENT CHANGE IN YEARS OF SCHOOL COMPLETED							PERCENT CHANGE IN AGE				
	Total	1-8	9-11	12	13-15	16	17+	Total	16-24	25-34	35-54	55+
Actors and directors												
1970-90	172.6%	-78.2%	-11.0%	-7.3%	148.7%	498.2%	229.6%	172.6%	24.6%	235.0%	228.4%	129.7%
1980-90	63.1%	-69.0%	33.6%	-7.4%	74.4%	125.5%	13.7%	63.1%	12.8%	48.1%	105.9%	61.3%
1970-80	67.1%	-29.7%	-33.4%	0.1%	42.6%	165.3%	189.9%	67.1%	10.5%	126.2%	59.5%	42.4%
Announcers												
1970-90	132.3%	122.9%	198.5%	44.6%	163.4%	217.3%	39.5%	132.3%	108.2%	150.8%	134.6%	163.9%
1980-90	28.3%	-38.0%	29.8%	-7.3%	61.2%	42.2%	-39.1%	28.3%	-5.7%	26.9%	106.6%	56.4%
1970-80	81.1%	259.3%	129.9%	55.9%	63.4%	123.2%	129.1%	81.1%	120.8%	97.6%	13.6%	68.7%
Architects												
1970-90	192.3%	-85.7%	-25.3%	46.9%	222.4%	579.5%	59.1%	192.3%	137.3%	260.4%	186.5%	120.7%
1980-90	45.7%	-72.7%	-62.6%	-25.8%	56.4%	294.9%	-27.2%	45.7%	-20.7%	28.6%	77.2%	42.3%
1970-80	100.7%	-47.7%	99.7%	98.1%	106.1%	72.1%	118.5%	100.7%	199.3%	180.4%	61.7%	55.1%
Authors												
1970-90	284.6%	-20.5%	116.6%	-1.5%	172.1%	468.2%	447.0%	284.6%	179.1%	246.2%	294.7%	350.5%
1980-90	133.3%	-47.7%	126.9%	20.6%	153.8%	206.7%	92.6%	133.3%	120.6%	83.2%	180.3%	114.2%
1970-80	64.8%	52.2%	-4.6%	-18.3%	7.2%	85.3%	184.0%	64.8%	26.5%	89.0%	40.8%	110.3%
Dancers												
1970-90	196.0%	26.0%	104.8%	118.5%	394.8%	802.4%	235.6%	196.0%	129.8%	240.1%	359.5%	259.8%
1980-90	66.1%	30.5%	66.1%	27.6%	122.9%	148.6%	-12.7%	66.1%	47.7%	64.4%	149.9%	57.3%
1970-80	78.2%	-3.5%	23.3%	71.2%	121.9%	263.0%	284.3%	78.2%	55.6%	106.8%	83.9%	128.8%
Designers												
1970-90	156.3%	-28.6%	17.3%	41.0%	270.1%	432.8%	110.6%	156.3%	134.4%	181.3%	155.4%	120.9%
1980-90	76.4%	0.9%	37.9%	14.6%	124.3%	157.3%	-2.7%	76.4%	19.5%	74.8%	112.6%	49.1%
1970-80	45.3%	-29.2%	-14.9%	23.1%	65.0%	107.0%	116.4%	45.3%	96.2%	61.0%	20.2%	48.1%
Musicians and composers												
1970-90	48.7%	-9.4%	-42.8%	-17.2%	72.7%	227.6%	131.5%	48.7%	-48.3%	102.4%	112.6%	57.7%
1980-90	5.3%	-13.3%	-25.5%	-33.9%	15.4%	60.6%	10.1%	5.3%	-45.3%	-20.5%	82.5%	33.4%
1970-80	41.2%	4.4%	-23.3%	25.2%	49.7%	104.0%	110.1%	41.2%	-5.6%	154.7%	16.5%	18.2%
Painters, sculptors, craft-artists, and artist printmakers												
1970-90	145.0%	0.2%	31.9%	14.1%	215.1%	321.1%	181.4%	145.0%	50.1%	179.4%	164.9%	133.7%
1980-90	38.9%	-3.5%	22.8%	-4.8%	67.6%	74.4%	-11.0%	38.9%	-12.2%	17.7%	87.3%	36.7%
1970-80	76.4%	3.9%	7.4%	19.8%	88.0%	141.4%	216.4%	76.4%	70.8%	137.3%	41.5%	71.0%
Photographers												
1970-90	112.3%	-52.0%	-16.4%	-6.7%	243.1%	662.0%	264.8%	112.3%	76.3%	192.2%	112.7%	32.1%
1980-90	51.5%	-24.8%	31.3%	-2.4%	89.5%	125.4%	-23.8%	51.5%	9.2%	37.9%	113.2%	15.4%
1970-80	40.2%	-36.2%	-36.3%	-4.3%	81.0%	238.1%	378.9%	40.2%	61.5%	111.9%	-0.2%	14.4%
Teachers of art, drama, and music												
1970-90	-49.1%	-95.6%	-77.8%	-64.2%	-14.2%	-11.0%	-57.1%	-49.1%	-53.5%	-62.5%	-42.1%	-39.9%
1980-90	-24.6%	-97.2%	-80.5%	-55.1%	4.2%	3.4%	-30.8%	-24.6%	-30.3%	-49.7%	-8.6%	-10.7%
1970-80	-32.4%	57.0%	14.2%	-20.3%	-17.7%	-13.9%	-38.0%	-32.4%	-33.2%	-25.6%	-36.7%	-32.7%
Other artists												
1970-90	75.8%	-16.5%	30.6%	18.1%	129.2%	175.1%	49.1%	75.8%	73.3%	101.2%	68.6%	51.6%
1980-90	88.1%	-15.5%	31.0%	8.9%	162.2%	182.7%	116.4%	88.1%	33.3%	61.5%	173.8%	78.5%
1970-80	-6.5%	-1.1%	-0.3%	8.4%	-12.6%	-2.7%	-31.1%	-6.5%	30.0%	24.6%	-38.4%	-15.1%
Total artists												
1970-90	126.8%	-27.2%	7.4%	18.6%	196.3%	386.4%	78.2%	126.8%	52.5%	163.1%	142.0%	101.9%
1980-90	53.9%	-13.1%	19.6%	-0.4%	87.4%	137.3%	-1.0%	53.9%	1.2%	37.3%	103.4%	47.0%
1970-80	47.3%	-16.2%	-10.2%	19.1%	58.2%	105.0%	80.1%	47.3%	50.7%	91.6%	19.0%	37.3%

* (1970 data obtained by distributing the EEO data totals according to percentages based on a 4% Artist Extract File reported in *Artists in the Workforce: 1950 to 1984*, Constance F. Citro and Deirdre A. Gaquin, Appendix Tables D1-1-70, and D1-2-70, National Endowment for the Arts. This source shows how the definition of artist occupations changed between 1970 and 1980.)

Table 26. Artist occupations by median age by sex: United States 1990, 1980 and 1970

OCCUPATION and YEAR	NUMBER BY SEX			MEDIAN AGE BY SEX (1% sample 1990, 1980)			INCREASE IN MEDIAN AGE 1980 to 1990, in years			Median age of artists minus median of all professionals		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Actors and directors												
1990	109,573	67,787	41,786	35.59	36.70	34.14	2.35	2.70	2.59	-3.62	-3.32	-4.42
1980	67,180	44,049	23,131	33.24	34.00	31.55	-2.94	-3.47	-3.15			
1970	40,201	26,339	13,862	na	na	na						
Announcers												
1990	60,269	47,752	12,517	30.49	31.15	28.69	3.59	3.59	3.69	-8.72	-8.87	-9.87
1980	46,986	38,392	8,594	26.90	27.56	25.00	-9.28	-9.91	-9.70			
1970	25,942	24,291	1,651	na	29.40	36.00						
Architects												
1990	156,874	133,212	23,662	37.63	39.10	33.11	1.22	2.05	1.04	-1.58	-0.92	-5.45
1980	107,693	98,743	8,950	36.41	37.05	32.07	0.23	-0.42	-2.63			
1970	53,670	51,534	2,136	na	41.20	40.20						
Authors												
1990	106,730	53,863	52,867	42.20	43.03	41.04	3.26	3.03	3.04	2.99	3.01	2.48
1980	45,748	25,409	20,339	38.94	40.00	38.00	2.76	2.53	3.30			
1970	27,752	19,578	8,174	na	41.60	42.50						
Dancers												
1990	21,913	5,097	16,816	26.29	26.93	26.04	0.79	-0.24	1.04	-12.92	-13.09	-12.52
1980	13,194	3,350	9,844	25.50	27.17	25.00	-10.68	-10.30	-9.70			
1970	7,404	1,381	6,023	na	28.10	25.10						
Designers												
1990	596,802	265,299	331,503	36.32	36.95	35.83	1.31	0.90	1.96	-2.89	-3.07	-2.73
1980	338,374	169,604	168,770	35.01	36.05	33.87	-1.17	-1.42	-0.83			
1970	232,890	148,572	84,318	na	38.30	36.90						
Musicians and composers												
1990	148,020	99,409	48,611	36.34	35.47	40.58	5.88	5.66	7.14	-2.87	-4.55	2.02
1980	140,556	99,065	41,491	30.46	29.81	33.44	-5.72	-7.66	-1.26			
1970	99,533	64,767	34,766	na	29.60	37.90						
Painters, sculptors, craft-artists, and artist printmakers												
1990	212,762	101,067	111,695	38.03	37.45	38.35	4.50	2.01	5.98	-1.18	-2.57	-0.21
1980	153,162	79,445	73,717	33.53	35.44	32.37	-2.65	-2.03	-2.33			
1970	86,849	52,827	34,022	na	39.00	35.20						
Photographers												
1990	143,520	100,169	43,351	35.55	37.25	32.38	2.68	2.80	3.55	-3.66	-2.77	-6.18
1980	94,762	72,496	22,266	32.87	34.45	28.83	-3.31	-3.02	-5.87			
1970	67,588	57,597	9,991	na	38.60	36.90						
Teachers of art, drama, and music												
1990	21,393	10,591	10,802	41.87	42.90	40.48	5.87	3.40	7.42	2.66	2.88	1.92
1980	28,385	14,718	13,667	36.00	39.50	33.06	-0.18	2.03	-1.64			
1970	42,000	25,310	16,690	na	39.00	38.50						
Other artists												
1990	93,421	46,865	46,556	35.26	34.88	35.72	3.30	2.45	4.19	-3.95	-5.14	-2.84
1980	49,653	29,356	20,297	31.96	32.43	31.53	-4.22	-5.04	-3.17			
1970	53,131	37,742	15,389	na	na	na						
Total artists												
1990	1,671,277	931,111	740,166	36.55	36.99	35.99	3.10	3.03	3.40	-2.66	-3.03	-2.57
1980	1,085,693	674,627	411,066	33.45	33.96	32.59	-2.73	-3.51	-2.11			
1970	736,960	509,938	227,022	na	37.30	37.70						
Professional occupations												
1990	16,647,688	7,706,256	8,941,432	39.21	40.02	38.56	3.03	2.55	3.86			
1980	12,275,140	6,247,708	6,027,432	36.18	37.47	34.70						
1970	8,800,210	4,897,893	3,902,317	na	37.80	37.60						
Labor force												
1990	122,473,499	66,431,987	56,041,512	36.69	36.90	36.45	1.62	1.22	2.25			
1980	104,057,985	59,756,221	44,301,764	35.07	35.68	34.20						
1970	79,801,605	49,454,750	30,346,855	na	40.10	39.40						

na=not available. (1970 median ages obtained from a 4% Artist Extract File as reported in *Artists in the Workforce: 1950 to 1984*, Constance F. Citro and Deirdre A. Gaquin, Tables IV.1 to IV.5, National Endowment for the Arts. This source shows how the definition of artist occupations changed between 1970 and 1980. These changes and differences in calculating medians for 1970 compared with those used for the 1980 and 1990 data in the table, suggest the 1970 medians are approximate comparisons.)

Table 27. Artist occupations by full time or part time work status or by labor force or year last worked status, United States: 1980 and 1990

ALL PERSONS WITH OCCUPATION CODES BY SEX	NUMBER 1990 CENSUS YEAR WORKED LAST YEAR, LABOR FORCE, YEAR LAST WORKED STATUS				
		Worked last year		Not worked last year	
	Total labor force and reserve	Full year full time	Not full yr. or full time	In Labor force	Worked 2-5 years ago
MALE					
Actors/directors	73,295	36,770	33,390	1,190	1,945
Announcers	53,266	24,562	25,561	1,593	1,550
Architects	143,413	107,422	31,715	1,365	2,911
Authors	61,985	28,851	27,330	3,701	2,103
Dancers	6,107	1,273	4,309	284	241
Designers	294,288	198,059	79,989	5,113	11,127
Musicians/composers	117,563	34,020	75,527	3,825	4,191
Painters	113,275	60,857	44,986	3,134	4,298
Photographers	112,297	65,585	40,702	2,088	3,922
Teachers art, etc.	11,109	3,304	7,167	133	505
Other artists	57,303	21,108	31,576	1,987	2,632
Total artists	1,043,901	581,811	402,252	24,413	35,425
Professionals	8,488,997	5,414,622	2,651,965	109,336	313,074
Labor force	77,055,897	44,720,226	26,298,294	1,970,199	4,067,178
FEMALE					
Actors/directors	53,963	21,316	28,568	1,013	3,066
Announcers	14,904	5,305	8,069	589	941
Architects	27,057	14,389	10,992	603	1,073
Authors	63,063	20,601	34,891	3,884	3,687
Dancers	21,996	3,513	15,280	1,178	2,025
Designers	418,677	165,144	206,002	13,355	34,176
Musicians/composers	63,839	9,389	48,973	1,788	3,689
Painters	136,297	49,808	72,283	4,898	9,308
Photographers	57,529	19,346	31,207	2,267	4,709
Teachers art, etc.	13,552	2,300	10,212	277	763
Other artists	59,830	14,851	38,010	2,430	4,539
Total artists	930,707	325,962	504,487	32,282	67,976
Professionals	10,473,976	3,928,559	5,664,751	204,593	676,073
Labor force	70,246,410	28,501,414	32,880,331	2,427,154	6,437,511

Table 27. (Continued) Artist occupations by full time or part time work status or by labor force or year last worked status, United States: 1980 and 1990

ALL PERSONS WITH OCCUPATION CODES BY SEX	NUMBER 1980 CENSUS YEAR WORKED LAST YEAR, LABOR FORCE, YEAR LAST WORKED STATUS				
		Worked last year		Not worked last year	
	Total labor force and reserve	Full year full time	Not full yr. or full time	In Labor force	Worked 2-5 years ago
MALE					
Actors/directors	50,620	24,660	23,200	1,300	1,460
Announcers	40,080	18,480	19,780	980	840
Architects	107,700	76,740	27,120	1,180	2,660
Authors	28,580	12,240	12,900	1,960	1,480
Dancers	3,920	760	2,840	140	180
Designers	183,200	126,680	46,900	3,440	6,180
Musicians/composers	112,880	22,700	81,840	4,240	4,100
Painters	88,440	48,480	33,240	2,600	4,120
Photographers	81,240	46,000	30,120	1,560	3,560
Teachers art, etc.	16,580	5,640	10,220	180	540
Other artists	35,960	14,060	19,240	1,080	1,580
Total artists	749,200	396,440	307,400	18,660	26,700
Professionals	6,814,000	4,359,000	2,143,000	93,000	219,000
Labor force	68,322,000	39,491,000	23,487,000	1,532,000	3,812,000
FEMALE					
Actors/directors	29,240	8,120	18,280	980	1,860
Announcers	10,700	3,720	6,160	420	400
Architects	10,940	4,900	5,260	280	500
Authors	26,460	6,860	15,620	1,680	2,300
Dancers	13,740	2,300	9,500	660	1,280
Designers	221,000	75,480	115,180	8,240	22,100
Musicians/composers	54,100	4,620	43,580	1,820	4,080
Painters	91,680	29,420	50,820	3,760	7,680
Photographers	32,100	9,080	18,380	1,300	3,340
Teachers art, etc.	16,340	2,400	12,420	540	980
Other artists	26,960	5,900	16,480	1,620	2,960
Total artists	533,260	152,800	311,680	21,300	47,480
Professionals	7,507,000	2,272,000	4,383,000	169,000	683,000
Labor force	58,236,000	20,251,000	29,201,000	2,145,000	6,639,000

Table 28. Percent of artist occupations by full time or part time work status or by labor force or year last worked status, United States: 1980 and 1990

ALL PERSONS BY SEX	1990 CENSUS YEAR: PERCENT WORKED LAST YEAR, LABOR FORCE, YEAR LAST WORKED STATUS				
		Worked last year		Not worked last year	
	Total labor force and reserve	Full year full time	Not full yr. or full time	In Labor force	Worked 2-5 years ago
MALE					
Actors/directors	100.00%	50.2%	45.6%	1.6%	2.7%
Announcers	100.00%	46.1%	48.0%	3.0%	2.9%
Architects	100.00%	74.9%	22.1%	1.0%	2.0%
Authors	100.00%	46.5%	44.1%	6.0%	3.4%
Dancers	100.00%	20.8%	70.6%	4.7%	3.9%
Designers	100.00%	67.3%	27.2%	1.7%	3.8%
Musicians/composers	100.00%	28.9%	64.2%	3.3%	3.6%
Painters	100.00%	53.7%	39.7%	2.8%	3.8%
Photographers	100.00%	58.4%	36.2%	1.9%	3.5%
Teachers art, etc.	100.00%	29.7%	64.5%	1.2%	4.5%
Other artists	100.00%	36.8%	55.1%	3.5%	4.6%
Total artists	100.00%	55.7%	38.5%	2.3%	3.4%
Professionals	100.00%	63.8%	31.2%	1.3%	3.7%
Labor force	100.00%	58.0%	34.1%	2.6%	5.3%
FEMALE					
Actors/directors	100.00%	39.5%	52.9%	1.9%	5.7%
Announcers	100.00%	35.6%	54.1%	4.0%	6.3%
Architects	100.00%	53.2%	40.6%	2.2%	4.0%
Authors	100.00%	32.7%	55.3%	6.2%	5.8%
Dancers	100.00%	16.0%	69.5%	5.4%	9.2%
Designers	100.00%	39.4%	49.2%	3.2%	8.2%
Musicians/composers	100.00%	14.7%	76.7%	2.8%	5.8%
Painters	100.00%	36.5%	53.0%	3.6%	6.8%
Photographers	100.00%	33.6%	54.2%	3.9%	8.2%
Teachers art, etc.	100.00%	17.0%	75.4%	2.0%	5.6%
Other artists	100.00%	24.8%	63.5%	4.1%	7.6%
Total artists	100.00%	35.0%	54.2%	3.5%	7.3%
Professionals	100.00%	37.5%	54.1%	2.0%	6.5%
Labor force	100.00%	40.6%	46.8%	3.5%	9.2%

Table 28. (Continued) Percent of artist occupations by full time or part time work status or by labor force or year last worked status, United States: 1980 and 1990

	1980 CENSUS YEAR: PERCENT WORKED LAST YEAR, LABOR FORCE, YEAR LAST WORKED STATUS				
		Worked last year		Not worked last year	
ALL PERSONS BY SEX	**Total labor force and reserve**	**Full year full time**	**Not full yr. or full time**	**In Labor force**	**Worked 2-5 years ago**
MALE					
Actors/directors	100.00%	48.7%	45.8%	2.6%	2.9%
Announcers	100.00%	46.1%	49.4%	2.4%	2.1%
Architects	100.00%	71.3%	25.2%	1.1%	2.5%
Authors	100.00%	42.8%	45.1%	6.9%	5.2%
Dancers	100.00%	19.4%	72.4%	3.6%	4.6%
Designers	100.00%	69.1%	25.6%	1.9%	3.4%
Musicians/composers	100.00%	20.1%	72.5%	3.8%	3.6%
Painters	100.00%	54.8%	37.6%	2.9%	4.7%
Photographers	100.00%	56.6%	37.1%	1.9%	4.4%
Teachers art, etc.	100.00%	34.0%	61.6%	1.1%	3.3%
Other artists	100.00%	39.1%	53.5%	3.0%	4.4%
Total artists	100.00%	52.9%	41.0%	2.5%	3.6%
Professionals	100.00%	64.0%	31.4%	1.4%	3.2%
Labor force	100.00%	57.8%	34.4%	2.2%	5.6%
FEMALE					
Actors/directors	100.00%	27.8%	62.5%	3.4%	6.4%
Announcers	100.00%	34.8%	57.6%	3.9%	3.7%
Architects	100.00%	44.8%	48.1%	2.6%	4.6%
Authors	100.00%	25.9%	59.0%	6.3%	8.7%
Dancers	100.00%	16.7%	69.1%	4.8%	9.3%
Designers	100.00%	34.2%	52.1%	3.7%	10.0%
Musicians/composers	100.00%	8.5%	80.6%	3.4%	7.5%
Painters	100.00%	32.1%	55.4%	4.1%	8.4%
Photographers	100.00%	28.3%	57.3%	4.0%	10.4%
Teachers art, etc.	100.00%	14.7%	76.0%	3.3%	6.0%
Other artists	100.00%	21.9%	61.1%	6.0%	11.0%
Total artists	100.00%	28.7%	58.4%	4.0%	8.9%
Professionals	100.00%	30.3%	58.4%	2.3%	9.1%
Labor force	100.00%	34.8%	50.1%	3.7%	11.4%

Table 29. Earnings in year before the census of artists by sex, for artists with some earnings who worked 50 to 52 weeks, and 35 to 99 hours per week, United States: 1980 and 1990

		PERCENT BY EARNINGS IN 1989								
WORKED FULL TIME, FULL YEAR, 1989	Number of full year full time earners*	Under $7,500 14,999	$7,500 to 24,999	$15,000 to 34,999	$25,000 to 49,999	$35,000 to 69,999	$50,000 to 99,999	$70,000 to more	$100,000 or 1979	Median earnings
MALE										
Actors/directors	36,822	3.1%	9.6%	21.6%	20.0%	20.3%	11.2%	6.0%	8.3%	$32,077
Announcers	24,571	3.6%	22.6%	32.5%	14.7%	12.3%	6.4%	4.5%	3.3%	$21,424
Architects	107,245	1.9%	2.9%	11.8%	22.1%	30.2%	17.6%	6.8%	6.7%	$40,110
Authors	28,890	11.2%	7.6%	16.3%	16.7%	21.7%	13.2%	5.4%	7.8%	$33,837
Dancers**	1,273	3.1%	37.0%	31.0%	20.0%	2.9%	4.0%	2.0%	0.0%	$16,623
Designers	197,675	2.6%	7.4%	19.4%	25.5%	25.8%	12.5%	4.2%	2.6%	$32,549
Musicians/composers	36,143	8.2%	17.2%	29.1%	19.3%	12.4%	7.5%	3.2%	3.1%	$22,988
Painters	60,433	9.0%	14.0%	28.1%	21.0%	16.0%	7.2%	2.4%	2.3%	$24,320
Photographers	66,562	5.7%	14.1%	27.7%	24.1%	16.2%	6.8%	2.6%	2.7%	$25,456
Teachers art, etc.	3,304	0.5%	2.1%	14.8%	32.3%	32.1%	13.9%	4.2%	0.0%	$34,982
Other artists	21,629	8.4%	16.3%	24.0%	19.8%	14.3%	9.6%	3.6%	4.0%	$25,310
Total artists	584,547	4.5%	9.8%	21.2%	22.5%	22.1%	11.5%	4.4%	4.0%	$31,124
Professionals	5,484,889	1.5%	4.3%	13.2%	20.1%	28.3%	16.9%	7.2%	8.6%	$40,095
Labor force	45,249,794	2.9%	12.5%	25.8%	23.1%	19.6%	9.2%	3.6%	3.3%	$28,522
FEMALE										
Actors/directors	21,257	1.9%	11.1%	28.4%	24.3%	18.2%	8.7%	3.8%	3.7%	$28,032
Announcers	5,305	4.5%	28.6%	34.3%	12.0%	13.2%	4.6%	1.9%	1.0%	$19,325
Architects	14,300	2.0%	6.0%	27.2%	33.5%	23.1%	6.0%	1.8%	0.6%	$29,451
Authors	20,481	11.2%	12.2%	26.0%	23.4%	18.2%	5.0%	1.7%	2.2%	$25,101
Dancers**	3,445	10.9%	34.5%	29.0%	18.6%	3.9%	1.9%	1.0%	0.0%	$15,623
Designers	164,067	8.7%	22.8%	31.8%	18.4%	11.7%	3.9%	1.7%	1.0%	$20,394
Musicians/composers	9,730	12.6%	22.8%	35.7%	15.7%	8.1%	2.4%	1.3%	1.4%	$18,653
Painters	49,595	15.1%	20.1%	37.5%	17.5%	6.0%	2.1%	1.2%	0.5%	$18,762
Photographers	19,428	10.1%	29.6%	37.4%	13.9%	6.0%	1.8%	0.7%	0.6%	$17,381
Teachers art, etc.	2,254	3.0%	10.8%	35.3%	29.5%	17.7%	3.5%	0.0%	0.0%	$25,316
Other artists	14,855	11.9%	24.1%	29.7%	19.4%	9.0%	3.3%	1.6%	1.0%	$19,193
Total artists	324,717	9.4%	20.8%	32.3%	19.3%	11.6%	3.9%	1.7%	1.1%	$20,825
Professionals	3,928,275	2.3%	10.5%	28.1%	31.6%	20.3%	4.7%	1.5%	1.1%	$27,580
Labor force	28,456,430	5.2%	26.8%	38.0%	18.3%	8.3%	2.2%	0.7%	0.5%	$19,086

* Includes armed forces in households for 1990. See discussion of Armed Forces in Part II, Technical Issues Introduction and Table 37.

** The median earnings and the 1979 to 1989 change in earnings are not useful because of the relatively few number of cases and the size of the sample. See discussion in Part II, Technical issues, Table 29SE.

Table 29. (Continued) Earnings in year before the census of artists by sex, for artists with some earnings who worked 50 to 52 weeks, and 35 to 99 hours per week, United States: 1980 and 1990

WORKED FULL TIME, FULL YEAR, 1979	Number of full year full time earners	PERCENT BY EARNINGS IN 1979*								
		Under $7,500 14,999	$7,500 to 24,999	$15,000 to 34,999	$25,000 to 49,999	$35,000 to 69,999	$50,000 to 99,999	$70,000 to more	$100,000 or 1979	Median earnings
MALE										
Actors/directors	24,560	3.0%	8.1%	22.7%	20.9%	17.6%	13.8%	5.7%	8.1%	$32,118
Announcers	18,260	3.3%	21.0%	36.1%	17.5%	9.2%	6.5%	3.6%	2.7%	$21,135
Architects	76,540	2.0%	4.2%	14.0%	25.7%	25.9%	16.3%	6.6%	5.4%	$36,805
Authors	12,140	17.5%	12.2%	17.1%	16.5%	13.8%	11.7%	4.3%	6.9%	$25,815
Dancers**	740	8.1%	10.8%	37.8%	18.9%	13.5%	8.1%	0.0%	2.7%	$21,667
Designers	126,280	3.1%	7.2%	20.7%	28.6%	24.8%	11.1%	3.0%	1.5%	$31,622
Musicians/composers	22,380	10.0%	19.5%	31.4%	19.1%	9.2%	6.1%	2.5%	2.2%	$20,781
Painters	48,280	8.0%	11.8%	27.9%	25.2%	16.3%	6.3%	2.4%	2.0%	$25,126
Photographers	45,780	7.2%	12.5%	31.1%	25.7%	14.7%	5.9%	1.4%	1.5%	$24,247
Teachers art, etc.	5,620	3.2%	3.2%	16.4%	28.1%	35.2%	12.8%	0.7%	0.4%	$33,722
Other artists	13,720	8.5%	17.9%	24.1%	22.9%	13.7%	7.0%	2.6%	3.4%	$23,833
Total artists	394,300	5.0%	9.7%	22.9%	25.1%	20.2%	10.5%	3.6%	3.0%	$27,961
Professionals	4,343,000	2.2%	4.5%	14.1%	24.2%	27.8%	15.0%	5.7%	6.5%	$37,246
Labor force	40,068,000	3.7%	10.3%	24.9%	27.1%	20.6%	8.4%	2.8%	2.3%	$28,921
FEMALE										
Actors/directors	8,080	6.4%	11.9%	34.2%	25.2%	12.9%	4.7%	3.0%	1.7%	$23,692
Announcers**	3,660	7.1%	36.6%	33.3%	12.6%	6.6%	1.6%	1.6%	0.5%	$16,636
Architects	4,880	5.3%	11.9%	28.7%	35.2%	14.8%	2.9%	0.4%	0.8%	$25,448
Authors	6,800	24.4%	17.1%	25.9%	13.5%	12.1%	4.4%	0.9%	1.8%	$17,833
Dancers**	2,300	18.3%	35.7%	24.3%	13.9%	3.5%	3.5%	0.0%	0.9%	$13,625
Designers	74,760	9.3%	30.9%	32.9%	16.3%	6.5%	3.0%	0.7%	0.4%	$17,060
Musicians/composers	4,560	21.1%	29.8%	28.1%	11.8%	6.6%	1.8%	0.0%	0.9%	$14,700
Painters	29,160	14.3%	23.2%	42.9%	13.8%	4.3%	0.9%	0.3%	0.3%	$16,989
Photographers	8,940	11.0%	33.8%	39.8%	10.3%	2.5%	2.0%	0.4%	0.2%	$15,804
Teachers art, etc.	2,360	5.1%	11.9%	31.4%	35.6%	14.4%	0.8%	0.8%	0.0%	$25,143
Other artists	5,820	14.8%	34.0%	30.2%	14.1%	4.8%	1.7%	0.0%	0.3%	$15,167
Total artists	151,320	11.4%	27.3%	34.5%	16.4%	6.7%	2.5%	0.7%	0.5%	$17,328
Professionals	2,253,000	3.1%	12.5%	43.1%	29.3%	9.1%	1.9%	0.6%	0.4%	$22,503
Labor force	20,144,000	6.0%	34.4%	40.9%	13.7%	3.7%	0.8%	0.2%	0.2%	$16,600

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* 1979 earnings were adjusted in the tabulation process to match 1989 earnings using a factor of 1.675676.

** The median earnings and the 1979 to 1989 change in earnings are not useful because of the relatively few number of cases and the size of the sample. See discussion in Part II, Technical issues, Table 29SE.

Table 30. Shift in percent distribution by earnings categories from 1979 to 1989 by sex for artists, professional occupations and the labor force: United States

	Under $7,500	$7,500 to 14,999	$15,000 to 24,999	$25,000 to 34,999	$35,000 to 49,999	$50,000 to 69,999	$70,000 to 99,999	$100,000 or more
MALE								
Actors/directors	0.1%	1.4%	-1.1%	-0.9%	2.7%	-2.5%	0.3%	0.2%
Announcers	0.3%	1.6%	-3.7%	-2.8%	3.1%	-0.1%	0.9%	0.6%
Architects	-0.1%	-1.3%	-2.2%	-3.5%	4.2%	1.4%	0.2%	1.3%
Authors	-6.2%	-4.6%	-0.8%	0.3%	7.9%	1.5%	1.1%	0.9%
Dancers	-5.0%	26.2%	-6.8%	1.0%	-10.6%	-4.1%	2.0%	-2.7%
Designers	-0.5%	0.2%	-1.3%	-3.1%	0.9%	1.3%	1.2%	1.2%
Musicians/composers	-1.8%	-2.3%	-2.3%	0.2%	3.2%	1.4%	0.7%	0.9%
Painters	1.0%	2.2%	0.2%	-4.3%	-0.3%	0.9%	-0.0%	0.3%
Photographers	-1.4%	1.7%	-3.4%	-1.6%	1.5%	0.9%	1.2%	1.1%
Teachers art, etc.	-2.7%	-1.1%	-1.6%	4.2%	-3.1%	1.1%	3.5%	-0.4%
Other artists	-0.1%	-1.6%	-0.1%	-3.1%	0.6%	2.6%	1.0%	0.6%
Total artists	-0.5%	0.1%	-1.7%	-2.7%	1.9%	1.0%	0.8%	1.0%
Professionals	-0.7%	-0.2%	-0.9%	-4.1%	0.5%	1.8%	1.4%	2.0%
Labor force	-0.8%	2.2%	0.9%	-4.0%	-0.9%	0.8%	0.8%	1.0%
FEMALE								
Actors/directors	-4.5%	-0.8%	-5.8%	-0.9%	5.3%	4.0%	0.8%	1.9%
Announcers	-2.6%	-8.0%	1.0%	-0.6%	6.6%	3.0%	0.2%	0.5%
Architects	-3.4%	-5.9%	-1.5%	-1.8%	8.3%	3.1%	1.3%	-0.3%
Authors	-13.2%	-4.8%	0.1%	9.9%	6.1%	0.6%	0.8%	0.4%
Dancers	-7.3%	-1.1%	4.7%	4.7%	0.4%	-1.5%	1.0%	-0.9%
Designers	-0.6%	-8.1%	-1.1%	2.0%	5.2%	0.9%	1.0%	0.6%
Musicians/composers	-8.5%	-7.0%	7.6%	3.9%	1.5%	0.7%	1.3%	0.6%
Painters	0.7%	-3.1%	-5.5%	3.8%	1.8%	1.2%	0.8%	0.2%
Photographers	-0.9%	-4.2%	-2.5%	3.6%	3.6%	-0.3%	0.3%	0.4%
Teachers art, etc.	-2.1%	-1.0%	4.0%	-6.0%	3.3%	2.7%	-0.8%	0.0%
Other artists	-2.9%	-9.9%	-0.6%	5.3%	4.2%	1.6%	1.6%	0.7%
Total artists	-2.0%	-6.5%	-2.2%	2.9%	4.9%	1.4%	1.0%	0.6%
Professionals	-0.9%	-2.0%	-15.0%	2.3%	11.2%	2.8%	0.9%	0.7%
Labor force	-0.8%	-7.7%	-2.8%	4.6%	4.7%	1.4%	0.4%	0.2%

Table 31. Percent difference in median earnings from 1979 to 1989 between males and females and between artists and all professional occupations by sex: United States

	Male change 89-79	Female change 89-79	Female-male difference		Reduction of male-female difference	Difference between All Professionals (median or change) and each occupation					
						Males		Change	Females		Change
			1979	1989		1979	1989	79-89	1979	1989	79-89
Actors/directors	-0.1%	18.3%	-35.6%	-14.4%	21.1%	-16.0%	-25.0%	-9.0%	5.0%	1.6%	-3.4%
Announcers	1.4%	16.2%	-27.0%	-10.9%	16.2%	-76.2%	-87.1%	-10.9%	-35.3%	-42.7%	-7.5%
Architects	9.0%	15.7%	-44.6%	-36.2%	8.4%	-1.2%	0.0%	1.2%	11.6%	6.4%	-5.2%
Authors	31.1%	40.8%	-44.8%	-34.8%	10.0%	-44.3%	-18.5%	25.8%	-26.2%	-9.9%	16.3%
Dancers	-23.3%	14.7%	-59.0%	-6.4%	52.6%	-71.9%	-141.2%	-69.3%	-65.2%	-76.5%	-11.4%
Designers	2.9%	19.5%	-85.4%	-59.6%	25.8%	-17.8%	-23.2%	-5.4%	-31.9%	-35.2%	-3.3%
Musicians/composers	10.6%	26.9%	-41.4%	-23.2%	18.1%	-79.2%	-74.4%	4.8%	-53.1%	-47.9%	5.2%
Painters	-3.2%	10.4%	-47.9%	-29.6%	18.3%	-48.2%	-64.9%	-16.6%	-32.5%	-47.0%	-14.5%
Photographers	5.0%	10.0%	-53.4%	-46.5%	7.0%	-53.6%	-57.5%	-3.9%	-42.4%	-58.7%	-16.3%
Teachers art, etc.	3.7%	0.7%	-34.1%	-38.2%	-4.1%	-10.4%	-14.6%	-4.2%	10.5%	-8.9%	-19.4%
Other artists	6.2%	26.5%	-57.1%	-31.9%	25.3%	-56.3%	-58.4%	-2.1%	-48.4%	-43.7%	4.7%
Total artists	11.3%	20.2%	-61.4%	-49.5%	11.9%	-33.2%	-28.8%	4.4%	-29.9%	-32.4%	-2.6%
Professionals	7.6%	22.6%	-65.5%	-45.4%	20.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Labor force	-1.4%	15.0%	-74.2%	-49.4%	24.8%	-28.8%	-40.6%	-11.8%	-35.6%	-44.5%	-8.9%

Note: 1979 earnings were adjusted in the tabulation process to match 1989 earnings using a factor of 1.675676.

Table 32. Changes in median earnings from 1979 to 1989 for artists, professionals and the labor force: United States

(1979 earnings were adjusted in the tabulation process to match 1989 earnings using a factor of 1.675676.)

	Dollar change		Percent change	
	Males	Females	Males	Females
Actors/directors	($40)	$4,340	-0.1%	18.3%
Announcers	$289	$2,688	1.4%	16.2%
Architects	$3,305	$4,002	9.0%	15.7%
Authors	$8,022	$7,267	31.1%	40.8%
Dancers	($5,044)	$1,998	-23.3%	14.7%
Designers	$927	$3,334	2.9%	19.5%
Musicians/composers	$2,208	$3,953	10.6%	26.9%
Painters	($806)	$1,773	-3.2%	10.4%
Photographers	$1,209	$1,577	5.0%	10.0%
Teachers art, etc.	$1,260	$173	3.7%	0.7%
Other artists	$1,477	$4,027	6.2%	26.5%
Total artists	$3,163	$3,497	11.3%	20.2%
Professionals	$2,849	$5,078	7.6%	22.6%
Labor force	($399)	$2,486	-1.4%	15.0%

Table 33. Household income in 1979 and 1989 for artists, professionals, and the labor force, United States: 1980 and 1990

(1979 income intervals and values were adjusted to 1989 inervals and values using a factor of 1.675676.)

OCCUPATION	NUMBER Persons in households in labor force	PERCENT BY INCOME, 1979 Under $15,000	$15K to 24,999	$25K to 34,999	$35K to 49,999	$50K to 64,999	$65K to 94,999	$95K to 124,999	$125K or more	Median 1979 household income of occupation category Total	Male	Female
Actors/directors	66,584	12.3%	15.2%	15.5%	17.9%	12.6%	12.6%	5.3%	8.5%	$40,192	$40,456	$39,476
Announcers	45,266	15.1%	19.7%	17.8%	18.5%	11.3%	11.4%	3.3%	2.9%	$33,313	$34,582	$27,143
Architects	107,276	5.9%	8.4%	15.1%	24.0%	18.1%	17.6%	6.1%	4.8%	$47,432	$47,921	$42,050
Authors	45,389	14.8%	13.9%	15.1%	17.0%	13.0%	12.4%	5.8%	8.0%	$39,930	$38,844	$40,611
Dancers	12,911	25.0%	19.9%	15.6%	15.8%	11.0%	8.3%	2.5%	1.9%	$28,046	$27,429	$28,333
Designers	336,675	9.7%	13.1%	16.4%	23.8%	16.6%	13.7%	3.7%	3.1%	$41,408	$42,323	$40,243
Musicians/composers	136,874	19.9%	19.0%	17.7%	17.8%	11.0%	9.4%	2.7%	2.5%	$31,088	$29,405	$35,191
Painters	151,927	13.8%	16.3%	16.8%	21.5%	13.9%	11.0%	3.5%	3.2%	$36,649	$35,849	$37,725
Photographers	93,537	13.3%	16.4%	17.8%	22.7%	14.4%	10.6%	2.9%	2.0%	$36,401	$36,425	$36,303
Teachers art, etc.	27,547	12.2%	12.2%	18.0%	24.4%	17.2%	11.2%	2.9%	2.0%	$38,909	$39,786	$37,143
Other artists	48,285	16.1%	16.0%	15.8%	20.1%	13.7%	10.5%	4.6%	3.2%	$36,382	$35,231	$38,552
Total artists	1,072,330	12.6%	14.7%	16.6%	21.5%	14.7%	12.4%	3.9%	3.6%	$38,779	$39,022	$38,352
Professionals	12,129,648	6.8%	10.4%	14.8%	25.2%	18.2%	16.2%	4.4%	4.0%	$45,248	$46,779	$43,417
Labor force	102,761,352	10.9%	15.1%	18.6%	24.2%	15.1%	11.5%	2.7%	1.9%	$37,792	$39,032	$36,190

OCCUPATION	NUMBER Persons in households in labor force	PERCENT BY INCOME, 1989 Under $15,000	$15K to 24,999	$25K to 34,999	$35K to 49,999	$50K to 64,999	$65K to 94,999	$95K to 124,999	$125K or more	Median 1979 household income of occupation category Total	Male	Female
Actors/directors	108,736	8.1%	10.9%	12.6%	19.0%	15.0%	16.1%	8.4%	9.9%	$49,229	$49,087	$49,438
Announcers	58,307	15.2%	17.9%	17.6%	19.4%	12.2%	10.4%	3.5%	3.9%	$34,570	$34,103	$36,906
Architects	156,609	3.4%	5.9%	11.4%	20.4%	19.2%	23.4%	8.2%	8.0%	$56,773	$56,952	$55,639
Authors	105,104	9.4%	9.9%	12.6%	17.2%	15.0%	17.7%	8.0%	10.3%	$50,798	$50,710	$50,915
Dancers	21,636	22.2%	17.8%	16.5%	16.7%	10.9%	10.5%	2.9%	2.4%	$29,920	$32,316	$29,196
Designers	593,481	7.8%	11.2%	14.8%	21.7%	17.1%	16.2%	5.6%	5.5%	$45,873	$47,688	$44,308
Musicians/composers	144,738	15.2%	15.9%	16.0%	20.3%	13.0%	12.0%	3.9%	3.7%	$36,653	$34,770	$41,099
Painters	211,240	10.5%	13.5%	15.7%	22.2%	15.7%	13.5%	4.5%	4.4%	$41,159	$39,943	$42,367
Photographers	141,780	10.0%	12.8%	16.5%	22.7%	15.4%	13.9%	4.2%	4.5%	$41,257	$42,338	$39,412
Teachers art, etc.	20,832	10.8%	10.7%	12.2%	22.1%	18.1%	17.3%	4.9%	3.9%	$45,425	$47,500	$43,895
Other artists	91,882	13.3%	13.2%	15.8%	20.1%	14.1%	14.9%	4.4%	4.3%	$40,451	$40,125	$40,819
Total artists	1,654,338	9.5%	11.9%	14.7%	20.9%	16.0%	15.7%	5.6%	5.7%	$44,523	$45,212	$43,626
Professionals	16,487,640	5.2%	7.9%	12.2%	21.4%	19.1%	20.5%	7.1%	6.7%	$52,090	$54,701	$50,025
Labor force	121,271,716	10.3%	14.0%	16.6%	22.5%	15.6%	13.7%	4.1%	3.3%	$40,507	$41,439	$39,360

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Table 33a. Shift in percent distribution by household income categories, 1979 to 1989 for artists, professionals, and occupations civilian labor force

	Under $15,000	$15K 24,999	$25K 34,999	$35K 49,999	$50K 64,999	$65K 94,999	$95K 124,999	$125K more
Actors/directors	-4.2%	-4.4%	-2.9%	1.2%	2.4%	3.5%	3.1%	1.4%
Announcers	0.1%	-1.8%	-0.2%	0.9%	1.0%	-1.0%	0.1%	0.9%
Architects	-2.5%	-2.5%	-3.7%	-3.6%	1.1%	5.8%	2.1%	3.2%
Authors	-5.4%	-4.1%	-2.5%	0.2%	2.0%	5.3%	2.1%	2.3%
Dancers	-2.8%	-2.1%	0.9%	0.9%	-0.0%	2.2%	0.4%	0.6%
Designers	-1.9%	-1.9%	-1.7%	-2.0%	0.6%	2.6%	2.0%	2.4%
Musicians/composers	-4.7%	-3.0%	-1.7%	2.5%	2.0%	2.6%	1.2%	1.2%
Painters	-3.3%	-2.8%	-1.1%	0.7%	1.8%	2.5%	1.0%	1.2%
Photographers	-3.3%	-3.6%	-1.3%	-0.0%	1.0%	3.4%	1.3%	2.5%
Teachers art, etc.	-1.3%	-1.5%	-5.8%	-2.3%	0.9%	6.2%	2.0%	2.0%
Other artists	-2.8%	-2.8%	-0.0%	-0.0%	0.4%	4.4%	-0.2%	1.0%
Total artists	-3.2%	-2.9%	-1.9%	-0.6%	1.3%	3.3%	1.7%	2.1%
Professionals	-1.6%	-2.5%	-2.6%	-3.8%	0.9%	4.3%	2.7%	2.7%
Labor force	-0.6%	-1.0%	-2.1%	-1.7%	0.5%	2.2%	1.4%	1.4%

Table 33b. Percent difference in median household income, 1979 to 1989

	PSO and artist diff: 1979	PSO & artist diff: 1989	PSO & artist change 89-79	Female-male difference 1979 89-79	Female male 1989	change
Actors/directors	-12.6%	-5.8%	6.8%	-2.5%	0.7%	3.2%
Announcers	-35.8%	-50.7%	-14.9%	-27.4%	7.6%	35.0%
Architects	4.6%	8.2%	3.6%	-14.0%	-2.4%	11.6%
Authors	-13.3%	-2.5%	10.8%	4.4%	0.4%	-3.9%
Dancers	-61.3%	-74.1%	-12.8%	3.2%	-10.7%	-13.9%
Designers	-9.3%	-13.6%	-4.3%	-5.2%	-7.6%	-2.5%
Musicians/composers	-45.5%	-42.1%	3.4%	16.4%	15.4%	-1.0%
Painters	-23.5%	-26.6%	-3.1%	5.0%	5.7%	0.8%
Photographers	-24.3%	-26.3%	-2.0%	-0.3%	-7.4%	-7.1%
Teachers art, etc.	-16.3%	-14.7%	1.6%	-7.1%	-8.2%	-1.1%
Other artists	-24.4%	-28.8%	-4.4%	8.6%	1.7%	-6.9%
Total artists	-16.7%	-17.0%	-0.3%	-1.7%	-3.6%	-1.9%
Professionals	0.0%	0.0%	0.0%	-7.7%	-9.3%	-1.6%
Labor force	-19.7%	-28.6%	-8.9%	-7.9%	-5.3%	2.6%

Table 33c. Changes in median household income from 1979 to 1989 for all artists and separately for male and female artists.

	MEDIAN HOUSEHOLD INCOME								
	TOTAL			MALE			FEMALE		
	1979	1989	GAIN	1979	1989	GAIN	1979	1989	GAIN
Actors/directors	$40,192	$49,229	$9,036	$40,456	$49,087	$8,631	$39,476	$49,438	$9,962
Announcers	$33,313	$34,570	$1,257	$34,582	$34,103	($479)	$27,143	$36,906	$9,764
Architects	$47,432	$56,773	$9,341	$47,921	$56,952	$9,031	$42,050	$55,639	$13,589
Authors	$39,930	$50,798	$10,869	$38,844	$50,710	$11,866	$40,611	$50,915	$10,304
Dancers	$28,046	$29,920	$1,875	$27,429	$32,316	$4,887	$28,333	$29,196	$863
Designers	$41,408	$45,873	$4,465	$42,323	$47,688	$5,365	$40,243	$44,308	$4,065
Musicians/composers	$31,088	$36,653	$5,564	$29,405	$34,770	$5,365	$35,191	$41,099	$5,908
Painters	$36,649	$41,159	$4,510	$35,849	$39,943	$4,094	$37,725	$42,367	$4,643
Photographers	$36,401	$41,257	$4,856	$36,425	$42,338	$5,913	$36,303	$39,412	$3,109
Teachers art, etc.	$38,909	$45,425	$6,515	$39,786	$47,500	$7,714	$37,143	$43,895	$6,752
Other artists	$36,382	$40,451	$4,069	$35,231	$40,125	$4,894	$38,552	$40,819	$2,268
Total artists	$38,779	$44,523	$5,744	$39,022	$45,212	$6,190	$38,352	$43,626	$5,274
Professionals	$45,248	$52,090	$6,842	$46,779	$54,701	$7,922	$43,417	$50,025	$6,608
Labor force	$37,792	$40,507	$2,715	$39,032	$41,439	$2,408	$36,190	$39,360	$3,170

Table 33d. Differences in household income between males and females, for artists, professionals and the labor force, 1979 to 1989

	MALE-FEMALE DIFFERENCES			ARTIST MEDIAN HOUSEHOLD INCOME CHANGE FROM 1979 TO 1989					
	Male household income minus female household income		Male gain Household income	DOLLARS			PERCENT		
	1979	1989	79 to 89	Total	Male	Female	Total	Male	Female
Actors/directors	$980	($351)	($1,331)	$9,036	$8,631	$9,962	22.5%	21.3%	25.2%
Announcers	$7,439	($2,803)	($10,242)	$1,257	($479)	$9,764	3.8%	-1.4%	36.0%
Architects	$5,871	$1,314	($4,558)	$9,341	$9,031	$13,589	19.7%	18.8%	32.3%
Authors	($1,767)	($205)	$1,562	$10,869	$11,866	$10,304	27.2%	30.5%	25.4%
Dancers	($905)	$3,119	$4,024	$1,875	$4,887	$863	6.7%	17.8%	3.0%
Designers	$2,080	$3,381	$1,301	$4,465	$5,365	$4,065	10.8%	12.7%	10.1%
Musicians/composers	($5,786)	($6,329)	($542)	$5,564	$5,365	$5,908	17.9%	18.2%	16.8%
Painters	($1,875)	($2,424)	($549)	$4,510	$4,094	$4,643	12.3%	11.4%	12.3%
Photographers	$122	$2,926	$2,804	$4,856	$5,913	$3,109	13.3%	16.2%	8.6%
Teachers art, etc.	$2,643	$3,605	$962	$6,515	$7,714	$6,752	16.7%	19.4%	18.2%
Other artists	($3,321)	($694)	$2,627	$4,069	$4,894	$2,268	11.2%	13.9%	5.9%
Total artists	$670	$1,586	$916	$5,744	$6,190	$5,274	14.8%	15.9%	13.8%
Professionals	$3,362	$4,676	$1,314	$6,842	$7,922	$6,608	15.1%	16.9%	15.2%
Labor force	$2,842	$2,080	($762)	$2,715	$2,408	$3,170	7.2%	6.2%	8.8%

Note: Numbers enclosed in parentheses are losses.

PART II, Technical Issues

Experienced civilian labor force. The "experienced civilian labor force" consists of all employed persons and those unemployed with recent civilian work experience. We call this the "labor force" in this Appendix.

The data lines for "labor force" in tables for 1970 are for the "experienced civilian labor force," as defined above. In 1980 and 1990 the data lines for "labor force" contain all persons assigned a specific occupation code in the Census Bureau's Equal Employment Opportunity (EEO) summary data files. These files contain slightly fewer persons than the "experienced civilian labor force," as shown below on the line labeled "EEO Civilian Labor Force." We used the EEO estimates for 1990 and 1980 because they provide artist data based on a 16.7% sample, the largest sample available.

Universe	1990	1980
Civilian Labor Force	123,473,450	104,449,817
Experienced Civilian Labor Force	123,044,450	104,057,985
EEO Civilian Labor Force	122,473,499	103,718,076

To have an artist or other professional occupation a person must have had experience in that occupation. Therefore the persons in specific occupations are always in the "experienced civilian labor force." For example, the data lines for artist occupations and all professional occupations in 1970, 1980, and 1990 are for the "experienced civilian labor force" in all tables except those for persons who worked the year before the census.

Professionals. Data for "Professionals" appear in most tables. The Census Bureau refers to this occupation group as "Professional Specialty Occupations." Artists are included in "professionals." Examples of other kinds of professionals are mining engineers, physicists and astronomers, physicians, dentists, optometrists, registered nurses, physical therapists, social workers, editors and reporters, lawyers, and athletes.

Armed Forces members in civilian occupations in 1990. The 1990 census was the first since 1940 to code the occupation of the military. Occupations that were similar to civilian jobs were classified to the civilian categories found in the *Classified Index of Industries and Occupations*. The Census Bureau refers to these civilian jobs held by armed forces members as "military occupations."[1]

Armed forces persons appear with civilian artist occupations in Part I, Table 29, showing earnings of full-year full-time household members.

Table 37 shows the number and percent of each artist category in the armed forces. About 9 percent of male musicians and female art teachers and artists, not elsewhere classified are in the armed forces. In all other artist occupations the armed forces percentage is negligible or zero. The 1980 data in Table 29 are not strictly comparable with the data for 1990 because armed forces members in households are not in the 1980 universe but they are in the 1990 universe.

Art teachers' decrease from 1970 to 1990 may be a reporting change. Teachers of art, drama, and music in higher education were the only artist occupation to show a decrease in numbers from 1980 to 1990. However, there was an increase from 1980 to 1990 in the numbers of teachers in higher education who did not report their academic specialty. This group probably includes some who would have reported their specialty as teacher of art, drama, and music. In fact, the 25% decline from 1980 to 1990 for art teachers is nearly the same as the 24% decline for all postsecondary teachers who listed their teaching specialty on the census form. The details are shown in Table 38.

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[1] Bureau of the Census, *1990 Census of Population and Housing Guide, Part A., Text*, 1990 CPH-R-1A, Superintendent of Documents, Washington D.C., September 1992. Pg. 14

Sample size and special Census Bureau tabulation to provide retrospective comparability with 1970 occupation definitions: Tables 1-19 show occupation group totals in 1990 and 1980 calculated from 16.7% samples. (Some publications refer to the 16.7% samples of 1980 and 1990 as 19% samples because of the effect of 50% sampling done in places of less than 2,500 population.) The 1970 data in Tables 1 to 12 come from a 20% sample.

Precise national comparisons between 1970 artist occupations with those for 1980 and 1990 may be made only with special tabulations prepared by the Census Bureau in 1984. This is because the definition of detailed occupation categories changed between 1970 and 1980. To obtain historical comparability between 1970 and later years the Census Bureau made adjustments to 1970 20% sample tabulations known as the "sixth count".

A sample of 120,000 1970 records (about .15% of the labor force) was recoded into 1980 categories and tabulated. The results of the .15% sample were used to created adjusted numbers. The adjusted numbers appear in U.S. Bureau of the Census, *Detailed Occupation of the Experienced Civilian Labor Force by Sex for the U.S. and Regions: 1980 and 1970*, PC80-S1-15, Washington D.C.: GPO, 1984. That report provides the 1970 artist totals used in Table 19. The printed state reports from the 1980 census, *Characteristics of the Population: Detailed Population Characteristics*, PC-1-D, provide data that compare 1970 and 1980 occupation at the state level, as used in Tables 1-12.

Comparability of occupation definitions between censuses.

1980 and 1990. The artist occupations are the same in 1980 and 1990 in data from censuses for those years. The detailed components of each artist occupation appear in *1990 Census of Population and Housing, Classified Index of Industries and Occupations*, 1990 CPH-R-4. GPO, Washington, D.C., 20402, April, 1992.

Although the Census Bureau considers the artist occupations as essentially the same for the two censuses, in fact there were some minor changes in a few of the detailed job titles included or excluded in the artist categories for each census.

These minor changes, as well as the detailed components for 1990, appear in the report, *Using the Census Artist Extract Files of the National Endowment for the Arts*, National Endowment for the Arts, Research Division, Washington D.C., 1994.

1970 and 1980. The adjustments described above, based on recoding a sample of 120,000 1970 records, had a major effect on the 1980 occupations listed below.

Actors/directors
Architects (male only)
Designers
Painters, sculptors, craft-artists, and artist printmakers
Photographers (male only)
Teachers of art
Artists, not elsewhere classified

The changes affecting these occupations are described in detail in Constance F. Citro and Deirdre A. Gaquin, *Artists in the Workforce, 1950 to 1985*, Research Division, National Endowment for the Arts: Washington, 1987, Appendix B. The authors drew on "unpublished charts showing Detailed Occupation sorted by 1970 and 1980 codes." They then developed their own charts to trace changes since 1950. Consult *Artists in the Workforce, 1950 to 1985*, Appendix B, for definitive details.

Direct comparisons can be made from printed census data sources for the 1980 occupations listed below.

Announcers
Authors
Dancers
Musicians/composers

Data sources for specific demographic subjects.

Sex, race, and Hispanic sources.

Census of Population and Housing, 1980: *Detailed Occupation and years of School Completed by Age, for the Civilian Labor Force by Sex, Race, and Spanish Origin: 1980,* Supplementary Report PC80-S1-8, Washington, D.C., GPO, 1983. (Members of the labor force without recent experience, needed for subtraction, were obtained from U.S. Bureau of the Census, Data User Services Division, Equal Employment Opportunity Special File, Machine Readable Data File, Washington D.C.: Bureau of the Census, 1982.)

Census of Population and Housing, 1980: *Detailed Occupation of the Experienced Civilian Labor Force by Sex for the United States and Regions: 1980 and 1970,* Supplementary Report, PC80-S1-15, Washington, D.C., GPO, 1984.

Age and Education sources.

EXPERIENCED CIVILIAN LABOR FORCE: 1990
Census of Population and Housing, 1990: *Public Use Microdata Samples,* prepared by the Bureau of the Census, Washington: The Bureau, 1992. Percentages based on tabulations of the 1% sample.

PROFESSIONAL SPECIALTY OCCUPATIONS: 1990
ARTISTS: 1990 National Endowment for the Arts, *1990 Artists Extract File* based on the Census of Population and Housing, 1990: *Public Use Microdata Samples,* prepared by the Bureau of the Census, Washington: The Bureau, 1992. Percentages based on tabulations of the 1% sample for professional specialty occupations and a 5% sample for artists.

EXPERIENCED CIVILIAN LABOR FORCE: 1980
PROFESSIONAL SPECIALTY OCCUPATIONS: 1980
Census of Population and Housing, 1980: *Public-Use Microdata Sample A,* United States, prepared by the Bureau of the Census, Washington: The Bureau, 1983. Percentages based on tabulations of a 1% sample.

ARTISTS: 1980 Artist occupation totals are from the EEO Special Files (19 percent sample). Percentages for the Age and Years of School Completed distributions were applied to the occupation totals. The percentage calculations were based on tabulations of the National Endowment for the Arts, *1980 Artist Extract File,* 5 percent version, based on the Census of Population and Housing, 1980: *Public-Use Microdata Sample A,* United States, prepared by the Bureau of the Census, Washington: The Bureau, 1983.

EXPERIENCED CIVILIAN LABOR FORCE: 1970
PROFESSIONAL SPECIALTY OCCUPATIONS: 1970
U.S. Bureau of the Census, *1970 Census of Population, Subject Reports, PC(2)-7A, Occupational Characteristics,* Washington, D.C.: GPO, 1973

ARTISTS: 1970 Artist occupation totals are from U.S. Bureau of the Census, *Detailed Occupation of the Experienced Civilian Labor Force by Sex for the U.S. and Regions: 1980 and 1970,* Washington D.C.: GPO, 1984. Percentages for the Age and Years of School Completed distributions were applied to the occupation totals. The percentage calculations used Constance F. Citro and Deirdre A. Gaquin, *Artists in the Workforce, 1950 to 1985,* Research Division, National Endowment for the Arts: Washington, 1987, Appendix Tables D-1-70 and D-2-70. Citro and Gaquin based their tables on the National Endowment for the Arts, *1970 Artist Extract File,* "State" and "Neighborhood" versions combined for a 4 percent sample; based on the Census of Population and Housing, 1970: *Public-Use Microdata Sample,* United States, prepared by the Bureau of the Census, Washington: The Bureau, 1973.

Weeks and Hours Worked, Earnings, and Household Income

The data for these tables were tabulated for 1980 and 1990 only. All the tables were prepared for males and females separately.

EXPERIENCED CIVILIAN LABOR FORCE: 1990 and 1980 Census of Population and Housing, 1990: *Public Use Microdata Samples*, prepared by the Bureau of the Census, Washington: The Bureau, 1992. Percentages based on tabulations of a 1% sample.

PROFESSIONAL SPECIALTY OCCUPATIONS: 1980 Census of Population and Housing, 1980: *Public-Use Microdata Sample A*, United States, prepared by the Bureau of the Census, Washington: The Bureau, 1983. Percentages based on tabulations of a 1% sample.

ARTISTS: 1990 and 1980 National Endowment for the Arts, *1990 Artists Extract File* based on the Census of Population and Housing, 1990: *Public Use Microdata Samples*, prepared by the Bureau of the Census, Washington: The Bureau, 1992. Percentages based on tabulations of the 5% sample.

National Endowment for the Arts, *1980 Artist Extract File*, 5% version, based on the Census of Population and Housing, 1980: *Public-Use Microdata Sample A*, United States, prepared by the Bureau of the Census, Washington: The Bureau, 1983.

Sampling error. Standard error calculations for Tables 1-12 and 17 are based on the 1990 16.7% sample. Calculations for Tables 20, 23, and 29 are based on the 1990 5% sample. These calculations appear in this section as Table 1SE, 2SE, and so on.

(Note that the data for 1970 in these tables have been adjusted by use of a .15 percent sample as described on page A-51. The Census Bureau gives no guidance on standard error calculations for the adjusted 1970 data. The size of the sample affects the size of the standard error. For example, compare artists in Table 1SE and Table 20SE.)

Table 29SE provides confidence intervals for median earnings in Table 29. In Table 29SE the one standard error dollar range of confidence limits is the range of median earnings that would be expected in 68 percent of all samples drawn exactly as the PUMS sample for 1979 or 1989 workers. The two standard error dollar range of confidence limits is the range of median earnings that could be expected for 95 percent of all samples.

If both the positive and negative one standard error confidence interval estimate for median earnings of an artist category, male or female, exceeded 10% of the median earnings estimate for the artist category in Table 29, then "**" appears after the name of the artist category in Table 29.

Users may decide how to interpret median earnings values in different contexts. For standard error calculations, the size of the base (column 1, Table 29 and 29SE) is critical. A small base makes for a large standard error. For earnings median confidence intervals, the distribution of earners from which the median is derived is also critical. These distributions are summarized in the percent distribution columns of Table 29. Where earnings are concentrated in one interval (e.g. teachers and architects), the median is useful, even when the base is small (teachers). Where the majority of earners are divided between several intervals (e.g. announcers and authors), the median is less useful, depending on the size of the base and the width of the dollar range of confidence limits shown in Table 29SE.

The median earnings intervals were calculated based on $2,000 earnings intervals using the approximate method described in Census of Population and Housing, 1990: *Public Use Microdata Sample U. S. Technical Documentation*, page 3-4.

The size of the base of dancers with full year full time work is very small. We suggest that the estimates of dancer median earnings be considered suggestive. They can not be compared with other artists' median earnings with precision. Dancers' one standard error dollar range confidence limits, lower and upper, exceed 10% of the median 1979 and 1989 earnings of both male and female dancers. This situation also holds for the 1979 median earnings of female announcers.

Estimates based on different sample sizes: The comparisons in Table 34 show variations in the labor force universe estimates by sample size. The table shows how the household universe was derived for Table 33 in Part I. Table 35 compares weighted totals from samples of 16.7%, 5%, and 1% for artists in the labor force, by sex, for 1980 and 1990.

Table 1SE. Sampling error calculations for 1990 data in Table 1.

	1990 Labor Force	All Artists one standard error*	Range of estimate for all artists; 95 of 100 samples**	
			Lowest	Highest
United States	122,473,499	3,445	1,664,388	1,678,168
California	14,848,035	1,420	282,792	288,474
New York	8,897,589	1,137	181,086	185,634
Texas	8,135,729	826	94,348	97,654
Florida	6,128,028	778	83,606	86,716
Illinois	5,741,017	734	74,354	77,290
Pennsylvania	5,730,165	682	63,963	66,691
New Jersey	4,079,835	635	55,444	57,982
Ohio	5,231,697	633	55,038	57,572
Michigan	4,487,741	628	54,157	56,667
Massachusetts	3,228,380	604	50,205	52,619
Virginia	3,154,629	549	41,321	43,517
Georgia	3,256,181	518	36,671	38,743
Washington	2,421,652	514	36,268	38,324
Maryland	2,580,750	503	34,679	36,693
North Carolina	3,384,572	493	33,105	35,077
Minnesota	2,303,132	471	30,228	32,110
Missouri	2,506,769	450	27,578	29,378
Tennessee	2,386,976	448	27,306	29,098
Wisconsin	2,504,359	446	27,092	28,878
Connecticut	1,780,734	441	26,571	28,335
Colorado	1,724,397	440	26,447	28,207
Indiana	2,769,606	433	25,414	27,146
Arizona	1,713,175	416	23,588	25,254
Oregon	1,401,355	372	18,794	20,284
Louisiana	1,779,167	345	16,041	17,423
Alabama	1,848,965	344	15,909	17,285
South Carolina	1,685,399	331	14,692	16,016
Kentucky	1,669,361	322	13,905	15,195
Oklahoma	1,458,156	311	12,932	14,176
Iowa	1,398,500	309	12,741	13,975
Kansas	1,224,774	306	12,568	13,794
New Mexico	676,690	270	9,774	10,856
Hawaii	546,140	269	9,685	10,761
Utah	773,123	264	9,246	10,300
Nevada	644,180	259	8,913	9,947
Mississippi	1,104,496	250	8,236	9,236
Arkansas	1,056,596	243	7,803	8,777
New Hampshire	610,417	231	7,025	7,949
Maine	610,559	230	6,992	7,912
Nebraska	799,516	226	6,698	7,602
Rhode Island	520,197	222	6,491	7,379
Idaho	470,700	195	4,961	5,741
West Virginia	729,336	190	4,690	5,452
Vermont	299,860	178	4,106	4,818
Montana	374,534	177	4,069	4,779
Delaware	326,209	154	3,024	3,640
Alaska	267,900	149	2,805	3,399
South Dakota	334,219	147	2,715	3,301
North Dakota	302,143	146	2,689	3,273
Wyoming	219,906	124	1,901	2,397
District of Columbia	345,953	252	8,577	9,587

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 2SE. Sampling error calculations for 1990 data in Table 2, Actors and Directors

	1990 Labor Force	Actors and directors one standard error*	Range of estimate: Actors and directors 95 of 100 samples**	
			Lowest	Highest
United States	122,473,499	888	107,797	111,349
California	14,848,035	478	30,798	32,708
New York	8,897,589	376	18,906	20,410
Florida	6,128,028	181	4,201	4,925
Illinois	5,741,017	179	4,076	4,790
Texas	8,135,729	171	3,706	4,388
New Jersey	4,079,835	156	3,051	3,673
Massachusetts	3,228,380	145	2,623	3,203
Pennsylvania	5,730,165	141	2,478	3,042
Michigan	4,487,741	128	2,020	2,532
Virginia	3,154,629	126	1,942	2,444
Maryland	2,580,750	124	1,894	2,390
Ohio	5,231,697	123	1,841	2,331
Georgia	3,256,181	118	1,690	2,160
Washington	2,421,652	114	1,575	2,031
Minnesota	2,303,132	105	1,320	1,740
Connecticut	1,780,734	102	1,252	1,662
Tennessee	2,386,976	100	1,192	1,592
North Carolina	3,384,572	100	1,183	1,581
Colorado	1,724,397	97	1,122	1,512
Missouri	2,506,769	97	1,120	1,508
Wisconsin	2,504,359	92	984	1,350
Oregon	1,401,355	91	958	1,320
Arizona	1,713,175	89	915	1,269
Indiana	2,769,606	83	796	1,130
Louisiana	1,779,167	80	723	1,041
South Carolina	1,685,399	71	563	847
Alabama	1,848,965	71	559	843
Kentucky	1,669,361	71	550	832
Oklahoma	1,458,156	69	525	801
Iowa	1,398,500	63	427	679
Kansas	1,224,774	59	370	608
Arkansas	1,056,596	58	348	578
New Mexico	676,690	56	323	547
Nevada	644,180	55	316	538
Utah	773,123	54	292	506
Hawaii	546,140	53	286	498
Mississippi	1,104,496	51	263	469
Rhode Island	520,197	51	257	461
Maine	610,559	51	256	460
Nebraska	799,516	46	204	388
West Virginia	729,336	46	197	379
Montana	374,534	43	168	338
Alaska	267,900	41	151	315
New Hampshire	610,417	41	148	310
Idaho	470,700	39	133	289
Vermont	299,860	32	77	203
South Dakota	334,219	30	62	180
North Dakota	302,143	29	56	170
Wyoming	219,906	28	54	168
Delaware	326,209	24	32	128
District of Columbia	345,953	83	783	1,113

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 3SE. Sampling error calculations for 1990 data in Table 3, Announcers

	1990 Labor Force	Announcers one standard error*	Range of estimate: Announcers 95 of 100 samples**	
			Lowest	Highest
United States	122,473,499	659	58,953	61,587
California	14,848,035	200	5,182	5,984
Texas	8,135,729	183	4,267	4,997
New York	8,897,589	164	3,401	4,057
Florida	6,128,028	142	2,509	3,077
Pennsylvania	5,730,165	137	2,352	2,902
Illinois	5,741,017	129	2,057	2,573
Ohio	5,231,697	126	1,962	2,468
Michigan	4,487,741	122	1,827	2,315
Georgia	3,256,181	113	1,544	1,996
North Carolina	3,384,572	112	1,517	1,965
Virginia	3,154,629	111	1,495	1,939
Tennessee	2,386,976	107	1,367	1,793
Indiana	2,769,606	101	1,214	1,618
Minnesota	2,303,132	99	1,174	1,572
Wisconsin	2,504,359	99	1,163	1,559
Missouri	2,506,769	98	1,145	1,539
Louisiana	1,779,167	95	1,065	1,445
Maryland	2,580,750	93	1,027	1,401
New Jersey	4,079,835	91	978	1,344
Massachusetts	3,228,380	91	975	1,341
Washington	2,421,652	90	951	1,313
Kentucky	1,669,361	89	918	1,274
Alabama	1,848,965	84	802	1,136
Arizona	1,713,175	83	799	1,133
Colorado	1,724,397	82	761	1,087
Iowa	1,398,500	81	755	1,081
Oklahoma	1,458,156	78	696	1,010
Kansas	1,224,774	76	646	950
Arkansas	1,056,596	74	613	909
Oregon	1,401,355	73	592	884
South Carolina	1,685,399	72	585	875
New Mexico	676,690	71	563	847
Mississippi	1,104,496	69	528	806
Connecticut	1,780,734	64	439	695
West Virginia	729,336	62	416	666
Nebraska	799,516	58	351	583
Montana	374,534	57	342	572
North Dakota	302,143	57	335	563
Nevada	644,180	56	324	548
Hawaii	546,140	54	300	516
South Dakota	334,219	50	252	454
Maine	610,559	50	249	449
Idaho	470,700	50	242	440
Utah	773,123	45	193	373
New Hampshire	610,417	43	175	349
Alaska	267,900	41	148	310
Vermont	299,860	38	127	279
Wyoming	219,906	31	71	195
Delaware	326,209	30	68	190
Rhode Island	520,197	30	62	180
District of Columbia	345,953	41	150	314

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 4SE. Sampling error calculations for 1990 data in Table 4, Architects

	1990 Labor Force	Architects one standard error*	Range of estimate: Architects 95 of 100 samples**	
			Lowest	Highest
United States	122,473,499	1,062	154,750	158,998
California	14,848,035	451	27,399	29,203
New York	8,897,589	336	14,990	16,332
Texas	8,135,729	252	8,343	9,351
Florida	6,128,028	241	7,626	8,592
Illinois	5,741,017	237	7,366	8,316
Massachusetts	3,228,380	216	6,082	6,948
Pennsylvania	5,730,165	216	6,069	6,933
New Jersey	4,079,835	201	5,197	5,999
Virginia	3,154,629	189	4,571	5,325
Ohio	5,231,697	186	4,418	5,160
Washington	2,421,652	184	4,328	5,062
Maryland	2,580,750	178	4,075	4,789
Georgia	3,256,181	165	3,471	4,133
Michigan	4,487,741	157	3,130	3,760
Connecticut	1,780,734	151	2,862	3,466
Colorado	1,724,397	149	2,782	3,378
Minnesota	2,303,132	140	2,436	2,994
North Carolina	3,384,572	136	2,290	2,834
Missouri	2,506,769	133	2,191	2,723
Arizona	1,713,175	132	2,172	2,702
Indiana	2,769,606	119	1,730	2,206
Wisconsin	2,504,359	119	1,727	2,203
Tennessee	2,386,976	118	1,706	2,178
Oregon	1,401,355	116	1,641	2,105
Hawaii	546,140	102	1,256	1,666
Louisiana	1,779,167	98	1,141	1,533
South Carolina	1,685,399	98	1,128	1,518
Kansas	1,224,774	94	1,035	1,411
Alabama	1,848,965	91	959	1,321
Oklahoma	1,458,156	87	880	1,228
Kentucky	1,669,361	87	877	1,225
New Mexico	676,690	78	686	998
Iowa	1,398,500	77	662	968
Utah	773,123	73	593	885
Mississippi	1,104,496	71	552	834
Arkansas	1,056,596	67	490	758
Rhode Island	520,197	67	489	757
Nebraska	799,516	67	487	755
Maine	610,559	65	464	726
New Hampshire	610,417	63	431	685
Nevada	644,180	62	414	662
Vermont	299,860	57	341	569
Idaho	470,700	56	320	542
Alaska	267,900	48	228	422
West Virginia	729,336	47	213	401
Delaware	326,209	47	208	394
Montana	374,534	45	187	365
North Dakota	302,143	41	151	315
Wyoming	219,906	35	104	246
South Dakota	334,219	29	57	171
District of Columbia	345,953	99	1,175	1,571

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 5SE. Sampling error calculations for 1990 data in Table 5, Authors

	1990 Labor Force	Authors one standard error*	Range of estimate: Authors 95 of 100 samples**	
			Lowest	Highest
United States	122,473,499	876	104,978	108,482
California	14,848,035	409	22,433	24,069
New York	8,897,589	326	14,152	15,456
Texas	8,135,729	185	4,383	5,123
Illinois	5,741,017	175	3,914	4,614
Florida	6,128,028	172	3,772	4,460
Virginia	3,154,629	171	3,714	4,398
Massachusetts	3,228,380	170	3,701	4,383
Pennsylvania	5,730,165	154	2,974	3,588
New Jersey	4,079,835	148	2,740	3,332
Washington	2,421,652	139	2,401	2,957
Maryland	2,580,750	131	2,129	2,653
Ohio	5,231,697	129	2,065	2,583
Minnesota	2,303,132	125	1,916	2,416
Michigan	4,487,741	125	1,906	2,404
Colorado	1,724,397	123	1,851	2,343
Connecticut	1,780,734	122	1,840	2,330
Georgia	3,256,181	116	1,642	2,106
North Carolina	3,384,572	110	1,460	1,900
Arizona	1,713,175	107	1,365	1,791
Oregon	1,401,355	104	1,308	1,726
Missouri	2,506,769	101	1,218	1,622
Wisconsin	2,504,359	95	1,072	1,454
Tennessee	2,386,976	93	1,010	1,380
Indiana	2,769,606	91	964	1,328
New Mexico	676,690	80	726	1,046
Oklahoma	1,458,156	76	645	947
Kansas	1,224,774	76	643	945
Alabama	1,848,965	71	562	846
Utah	773,123	68	505	777
South Carolina	1,685,399	68	500	770
Maine	610,559	67	492	760
Iowa	1,398,500	67	491	759
Louisiana	1,779,167	66	474	738
Kentucky	1,669,361	65	455	715
New Hampshire	610,417	65	455	715
Nevada	644,180	58	346	576
Vermont	299,860	55	308	528
Rhode Island	520,197	53	279	489
Hawaii	546,140	52	275	483
Nebraska	799,516	52	275	483
Montana	374,534	51	257	461
Alaska	267,900	46	201	385
Idaho	470,700	45	196	378
Mississippi	1,104,496	45	193	373
Arkansas	1,056,596	43	167	337
Delaware	326,209	38	127	279
North Dakota	302,143	37	116	264
Wyoming	219,906	36	109	253
South Dakota	334,219	34	89	223
West Virginia	729,336	28	55	169
District of Columbia	345,953	112	1,514	1,960

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 6SE. Sampling error calculations for 1990 data in Table 6, Dancers

	1990 Labor Force	Dancers one standard error*	Range of estimate: Dancers 95 of 100 samples**	
			Lowest	Highest
United States	122,473,499	397	21,119	22,707
California	14,848,035	143	2,567	3,141
New York	8,897,589	140	2,455	3,017
Texas	8,135,729	116	1,632	2,096
Florida	6,128,028	114	1,575	2,031
Nevada	644,180	79	715	1,031
New Jersey	4,079,835	77	660	966
Michigan	4,487,741	73	590	882
Ohio	5,231,697	72	576	864
Pennsylvania	5,730,165	69	522	798
Illinois	5,741,017	67	493	761
Georgia	3,256,181	64	445	701
Hawaii	546,140	61	400	646
Washington	2,421,652	58	355	587
Virginia	3,154,629	57	337	565
Arizona	1,713,175	56	321	545
Indiana	2,769,606	55	305	523
Maryland	2,580,750	54	297	513
Massachusetts	3,228,380	52	272	480
North Carolina	3,384,572	52	266	472
Colorado	1,724,397	49	230	424
Minnesota	2,303,132	45	192	372
Missouri	2,506,769	45	189	369
Oregon	1,401,355	45	189	369
Louisiana	1,779,167	44	178	352
Tennessee	2,386,976	43	167	337
Oklahoma	1,458,156	42	160	328
Connecticut	1,780,734	39	136	294
Wisconsin	2,504,359	39	135	293
Alabama	1,848,965	38	127	281
Kentucky	1,669,361	38	122	274
Kansas	1,224,774	36	107	251
Utah	773,123	34	93	229
Nebraska	799,516	30	64	184
New Mexico	676,690	30	63	183
South Carolina	1,685,399	29	60	178
Arkansas	1,056,596	27	50	160
New Hampshire	610,417	26	43	149
Alaska	267,900	24	34	132
Rhode Island	520,197	22	23	111
Iowa	1,398,500	21	19	103
Maine	610,559	20	16	98
West Virginia	729,336	19	11	85
Mississippi	1,104,496	14	0	58
Wyoming	219,906	14	0	53
North Dakota	302,143	10	0	34
Delaware	326,209	10	0	32
South Dakota	334,219	10	0	32
Montana	374,534	8	0	23
Idaho	470,700	7	0	19
Vermont	299,860	5	0	15
District of Columbia	345,953	29	59	175

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 7SE. Sampling error calculations for data in Table 7, Designers

	1990 Labor Force	Designers one standard error*	Range of estimate: Designers 95 of 100 samples** Lowest	Highest
United States	122,473,499	2,068	592,666	600,938
California	14,848,035	815	91,150	94,410
New York	8,897,589	656	58,837	61,461
Texas	8,135,729	500	33,851	35,851
Florida	6,128,028	459	28,501	30,337
Illinois	5,741,017	453	27,685	29,495
Michigan	4,487,741	431	25,146	26,872
Pennsylvania	5,730,165	428	24,706	26,418
Ohio	5,231,697	409	22,535	24,171
New Jersey	4,079,835	406	22,224	23,848
Massachusetts	3,228,380	360	17,357	18,797
Georgia	3,256,181	326	14,139	15,441
Virginia	3,154,629	322	13,823	15,111
North Carolina	3,384,572	314	13,124	14,380
Washington	2,421,652	302	12,165	13,375
Maryland	2,580,750	298	11,818	13,012
Wisconsin	2,504,359	287	10,911	12,059
Minnesota	2,303,132	286	10,811	11,953
Connecticut	1,780,734	282	10,534	11,662
Indiana	2,769,606	279	10,305	11,421
Missouri	2,506,769	273	9,820	10,910
Tennessee	2,386,976	255	8,585	9,607
Colorado	1,724,397	252	8,371	9,379
Arizona	1,713,175	238	7,422	8,374
Alabama	1,848,965	218	6,207	7,081
Oregon	1,401,355	217	6,141	7,009
South Carolina	1,685,399	213	5,926	6,780
Kentucky	1,669,361	201	5,249	6,055
Louisiana	1,779,167	198	5,078	5,870
Iowa	1,398,500	193	4,789	5,559
Kansas	1,224,774	181	4,213	4,937
Oklahoma	1,458,156	171	3,724	4,408
Utah	773,123	160	3,252	3,892
Mississippi	1,104,496	157	3,105	3,731
Arkansas	1,056,596	146	2,686	3,270
New Hampshire	610,417	144	2,606	3,182
Rhode Island	520,197	139	2,434	2,992
New Mexico	676,690	139	2,405	2,959
Maine	610,559	137	2,344	2,892
Nebraska	799,516	136	2,310	2,854
Nevada	644,180	134	2,238	2,774
Hawaii	546,140	134	2,221	2,755
Idaho	470,700	124	1,908	2,406
West Virginia	729,336	117	1,668	2,136
Vermont	299,860	105	1,317	1,735
Delaware	326,209	101	1,231	1,637
Montana	374,534	90	953	1,313
South Dakota	334,219	79	720	1,038
North Dakota	302,143	75	634	934
Wyoming	219,906	68	513	787
Alaska	267,900	66	476	740
District of Columbia	345,953	110	1,463	1,903

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 8SE. Sampling error calculations for data in Table 8, Musicians and Composers

	1990 Labor Force	Musicians/Composers one standard error*	Range of estimate: Musicians/Composers 95 of 100 samples**	
			Lowest	Highest
United States	122,473,499	1,032	145,957	150,083
California	14,848,035	420	23,726	25,406
New York	8,897,589	342	15,612	16,980
Texas	8,135,729	257	8,665	9,693
Florida	6,128,028	256	8,577	9,599
Illinois	5,741,017	212	5,824	6,672
Pennsylvania	5,730,165	195	4,897	5,677
Tennessee	2,386,976	195	4,882	5,660
Ohio	5,231,697	189	4,584	5,340
Michigan	4,487,741	181	4,206	4,932
New Jersey	4,079,835	173	3,834	4,528
Massachusetts	3,228,380	167	3,558	4,228
North Carolina	3,384,572	154	2,971	3,585
Georgia	3,256,181	152	2,918	3,526
Virginia	3,154,629	150	2,811	3,409
Washington	2,421,652	148	2,740	3,332
Minnesota	2,303,132	145	2,629	3,209
Indiana	2,769,606	132	2,171	2,701
Missouri	2,506,769	131	2,135	2,661
Maryland	2,580,750	129	2,060	2,576
Arizona	1,713,175	128	2,023	2,535
Wisconsin	2,504,359	125	1,934	2,436
Colorado	1,724,397	124	1,895	2,391
Louisiana	1,779,167	119	1,724	2,200
Alabama	1,848,965	113	1,558	2,012
Oregon	1,401,355	112	1,528	1,976
Connecticut	1,780,734	111	1,498	1,942
Oklahoma	1,458,156	108	1,413	1,847
Kentucky	1,669,361	107	1,370	1,796
Nevada	644,180	106	1,341	1,763
South Carolina	1,685,399	102	1,234	1,640
Mississippi	1,104,496	92	989	1,357
Hawaii	546,140	88	904	1,256
Iowa	1,398,500	86	861	1,205
Kansas	1,224,774	84	804	1,138
Arkansas	1,056,596	79	707	1,023
New Mexico	676,690	72	568	854
Nebraska	799,516	65	462	724
Montana	374,534	63	430	684
New Hampshire	610,417	61	397	641
Maine	610,559	61	392	634
Rhode Island	520,197	58	353	585
West Virginia	729,336	58	352	584
Utah	773,123	56	327	551
Idaho	470,700	47	216	404
South Dakota	334,219	47	215	403
Vermont	299,860	47	212	400
North Dakota	302,143	47	211	399
Alaska	267,900	43	174	346
Delaware	326,209	38	125	277
Wyoming	219,906	31	70	192
District of Columbia	345,953	61	399	645

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 9SE. Sampling error calculations for data in Table 9, painters, sculptors, craft-artists, and artist printmakers

	1990 Labor Force	Painters, et. al. one standard error*	Range of estimate: Painters, et. al. 95 of 100 samples**	
			Lowest	Highest
United States	122,473,499	1,237	210,289	215,235
California	14,848,035	486	31,967	33,913
New York	8,897,589	412	22,817	24,465
Texas	8,135,729	288	10,940	12,090
Florida	6,128,028	285	10,706	11,844
Illinois	5,741,017	272	9,757	10,845
Pennsylvania	5,730,165	253	8,399	9,411
New Jersey	4,079,835	230	6,895	7,815
Ohio	5,231,697	225	6,619	7,521
Massachusetts	3,228,380	217	6,141	7,011
Michigan	4,487,741	212	5,827	6,675
Virginia	3,154,629	194	4,847	5,623
Washington	2,421,652	192	4,771	5,541
Maryland	2,580,750	185	4,407	5,149
Georgia	3,256,181	180	4,131	4,849
Missouri	2,506,769	176	3,953	4,657
Wisconsin	2,504,359	175	3,898	4,596
North Carolina	3,384,572	173	3,838	4,532
Colorado	1,724,397	171	3,744	4,430
Minnesota	2,303,132	171	3,714	4,396
Connecticut	1,780,734	165	3,470	4,130
Arizona	1,713,175	162	3,338	3,986
Tennessee	2,386,976	153	2,934	3,544
Indiana	2,769,606	145	2,615	3,193
Oregon	1,401,355	141	2,493	3,057
New Mexico	676,690	132	2,173	2,703
Louisiana	1,779,167	117	1,663	2,131
Alabama	1,848,965	116	1,646	2,110
Kansas	1,224,774	115	1,608	2,068
Iowa	1,398,500	113	1,539	1,989
Oklahoma	1,458,156	112	1,510	1,956
South Carolina	1,685,399	109	1,432	1,868
Utah	773,123	108	1,400	1,832
Hawaii	546,140	102	1,243	1,651
Kentucky	1,669,361	99	1,163	1,559
Maine	610,559	94	1,038	1,414
New Hampshire	610,417	89	929	1,285
Nevada	644,180	84	807	1,141
Nebraska	799,516	83	788	1,120
Rhode Island	520,197	80	738	1,060
Arkansas	1,056,596	80	727	1,047
Vermont	299,860	76	661	967
Mississippi	1,104,496	73	601	895
Montana	374,534	69	533	811
Idaho	470,700	66	474	738
Alaska	267,900	58	356	588
South Dakota	334,219	58	352	584
West Virginia	729,336	58	349	581
Delaware	326,209	54	293	507
North Dakota	302,143	53	281	493
Wyoming	219,906	50	248	448
District of Columbia	345,953	83	799	1,133

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 10SE. Sampling error calculations for data in Table 10, Photographers.

	1990 Labor Force	Photographers one standard error*	Range of estimate: Photographers 95 of 100 samples**	
			Lowest	Highest
United States	122,473,499	1,016	141,488	145,552
California	14,848,035	405	22,033	23,653
New York	8,897,589	323	13,870	15,162
Texas	8,135,729	256	8,580	9,602
Illinois	5,741,017	221	6,353	7,237
Florida	6,128,028	219	6,214	7,088
Pennsylvania	5,730,165	210	5,690	6,528
Ohio	5,231,697	193	4,781	5,553
New Jersey	4,079,835	185	4,372	5,110
Massachusetts	3,228,380	182	4,260	4,990
Michigan	4,487,741	182	4,225	4,951
Virginia	3,154,629	154	2,980	3,596
North Carolina	3,384,572	151	2,883	3,489
Georgia	3,256,181	150	2,830	3,430
Maryland	2,580,750	147	2,694	3,280
Washington	2,421,652	145	2,644	3,226
Colorado	1,724,397	139	2,403	2,959
Tennessee	2,386,976	139	2,397	2,951
Missouri	2,506,769	138	2,364	2,916
Minnesota	2,303,132	135	2,265	2,805
Wisconsin	2,504,359	131	2,115	2,639
Indiana	2,769,606	129	2,071	2,589
Arizona	1,713,175	122	1,811	2,297
Connecticut	1,780,734	121	1,781	2,263
Louisiana	1,779,167	110	1,474	1,916
Alabama	1,848,965	104	1,303	1,721
Oregon	1,401,355	104	1,294	1,710
Oklahoma	1,458,156	102	1,236	1,644
Iowa	1,398,500	101	1,219	1,623
Kentucky	1,669,361	99	1,170	1,566
South Carolina	1,685,399	98	1,150	1,544
Kansas	1,224,774	95	1,056	1,434
Utah	773,123	92	986	1,352
Hawaii	546,140	83	801	1,135
New Mexico	676,690	82	770	1,098
Mississippi	1,104,496	76	657	963
Arkansas	1,056,596	74	606	900
New Hampshire	610,417	72	576	864
Maine	610,559	70	542	822
Nevada	644,180	69	524	800
Rhode Island	520,197	68	507	779
Nebraska	799,516	66	477	741
Idaho	470,700	65	463	725
West Virginia	729,336	62	406	652
Montana	374,534	51	263	469
Delaware	326,209	51	259	463
South Dakota	334,219	50	251	451
Alaska	267,900	49	235	431
Vermont	299,860	47	216	406
North Dakota	302,143	45	187	365
Wyoming	219,906	42	161	329
District of Columbia	345,953	71	566	852

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 11SE. Sampling error calculations for data in Table 11, Teachers of art, drama and music at the post secondary level.

	1990 Labor Force	Teachers of art, et. al. one standard error*	Range of estimate: Teachers of art, et. al. 95 of 100 samples**	
			Lowest	Highest
United States	122,473,499	392	20,608	22,178
California	14,848,035	131	2,127	2,651
New York	8,897,589	110	1,464	1,904
Texas	8,135,729	103	1,269	1,681
Illinois	5,741,017	90	943	1,303
Ohio	5,231,697	86	848	1,190
Pennsylvania	5,730,165	82	771	1,099
Massachusetts	3,228,380	70	542	822
Michigan	4,487,741	70	536	814
Florida	6,128,028	68	512	786
North Carolina	3,384,572	66	479	745
Indiana	2,769,606	66	475	739
Minnesota	2,303,132	61	400	646
Wisconsin	2,504,359	60	381	621
Virginia	3,154,629	59	363	599
New Jersey	4,079,835	59	362	598
Washington	2,421,652	57	341	571
Maryland	2,580,750	57	341	569
Missouri	2,506,769	57	333	559
Tennessee	2,386,976	56	320	542
Arizona	1,713,175	54	292	506
Iowa	1,398,500	53	287	501
Georgia	3,256,181	51	262	466
Oregon	1,401,355	50	247	447
Louisiana	1,779,167	47	214	402
South Carolina	1,685,399	44	185	363
Colorado	1,724,397	43	168	340
Kansas	1,224,774	43	168	338
Connecticut	1,780,734	42	162	330
Kentucky	1,669,361	42	158	324
Alabama	1,848,965	41	152	316
Oklahoma	1,458,156	41	147	309
Mississippi	1,104,496	39	137	295
Utah	773,123	39	131	287
Arkansas	1,056,596	36	110	256
Nebraska	799,516	33	87	219
Idaho	470,700	31	72	196
Maine	610,559	31	71	195
North Dakota	302,143	29	59	175
Vermont	299,860	28	54	168
New Mexico	676,690	28	51	161
Rhode Island	520,197	27	50	160
New Hampshire	610,417	25	38	140
South Dakota	334,219	25	37	137
Hawaii	546,140	24	34	132
West Virginia	729,336	24	34	132
Alaska	267,900	24	33	131
Nevada	644,180	23	26	118
Montana	374,534	22	24	112
Wyoming	219,906	18	8	80
Delaware	326,209	6	0	17
District of Columbia	345,953	33	83	213

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 12SE. Sampling error calculations for data in Table 12, Other artists (artists, performers, and related workers not elsewhere classified)

	1990 Labor Force	Other artists one standard error*	Range of estimate: Other artists 95 of 100 samples**	
			Lowest	Highest
United States	122,473,499	820	91,781	95,061
California	14,848,035	363	17,646	19,100
New York	8,897,589	275	9,937	11,035
Florida	6,128,028	219	6,256	7,134
Texas	8,135,729	203	5,340	6,154
Illinois	5,741,017	154	2,978	3,592
New Jersey	4,079,835	146	2,659	3,241
Pennsylvania	5,730,165	139	2,421	2,979
Michigan	4,487,741	138	2,361	2,913
Ohio	5,231,697	137	2,326	2,874
Massachusetts	3,228,380	136	2,284	2,826
Virginia	3,154,629	133	2,206	2,740
Washington	2,421,652	125	1,914	2,412
Maryland	2,580,750	124	1,900	2,398
Georgia	3,256,181	113	1,541	1,993
Minnesota	2,303,132	110	1,469	1,909
Arizona	1,713,175	108	1,407	1,839
Colorado	1,724,397	105	1,331	1,753
Missouri	2,506,769	104	1,303	1,721
North Carolina	3,384,572	98	1,147	1,541
Indiana	2,769,606	94	1,045	1,421
Wisconsin	2,504,359	94	1,033	1,407
Tennessee	2,386,976	90	950	1,310
Connecticut	1,780,734	88	903	1,255
Louisiana	1,779,167	87	877	1,225
Oregon	1,401,355	87	869	1,215
Hawaii	546,140	85	825	1,163
Nevada	644,180	82	766	1,092
Oklahoma	1,458,156	78	691	1,003
Alabama	1,848,965	77	672	980
Kansas	1,224,774	77	663	969
South Carolina	1,685,399	75	631	931
Kentucky	1,669,361	72	580	868
Iowa	1,398,500	66	469	731
Rhode Island	520,197	63	426	678
Utah	773,123	63	420	670
New Mexico	676,690	57	339	567
New Hampshire	610,417	55	317	539
Arkansas	1,056,596	55	309	529
Nebraska	799,516	52	269	475
Mississippi	1,104,496	49	235	431
West Virginia	729,336	49	231	425
Maine	610,559	46	203	387
Montana	374,534	44	186	364
Idaho	470,700	44	185	363
Delaware	326,209	38	128	282
Alaska	267,900	36	111	257
Vermont	299,860	35	103	245
South Dakota	334,219	34	90	224
North Dakota	302,143	29	56	170
Wyoming	219,906	27	50	160
District of Columbia	345,953	68	511	783

* Standard error multiplied by sample design factor of 1.2 for occupation. (We took the labor force and doubled it to get a proxy for state population in the calculations.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures.

Table 17SE. Range of Sampling Error for the Estimate of the Percent of Artists in the Labor Force in each Metropolitan Area shown in Table 17.

Range of error for illustrative smaller areas also shown)

	Labor Force 1990	Total Artists 1990	One standard error total artists	Two SE and the sample design factor*	Range of results in 95 of 100 samples**			
					Estimated number of artists		Estimated percent of artists in labor force	
					Lowest	Highest	Lowest	Highest
Total United States	122,473,499	1,671,278	2,881	6,914	1,664,364	1,678,192	1.36%	1.37%
Total in Metropolitan Areas	97,210,626	1,473,197	2,704	6,489	1,466,708	1,479,686	1.51%	1.52%
Total in Consolidated Areas	46,291,565	813,396	2,008	4,819	808,577	818,215	1.75%	1.77%
Santa Fe, NM MSA	61,886	2,094	101	243	1,851	2,337	2.99%	3.78%
Norwalk, CT PMSA	74,546	2,481	110	265	2,216	2,746	2.97%	3.68%
New York, NY PMSA	4,170,806	123,676	781	1,873	121,803	125,549	2.92%	3.01%
San Francisco, CA PMSA	905,138	26,470	361	867	25,603	27,337	2.83%	3.02%
Stamford, CT PMSA	112,155	3,058	123	295	2,763	3,353	2.46%	2.99%
Los Angeles-Long Beach, CA PMSA	4,473,143	119,044	766	1,839	117,205	120,883	2.62%	2.70%
Boulder-Longmont, CO PMSA	130,344	3,175	125	301	2,874	3,476	2.21%	2.67%
Sarasota, FL MSA	118,368	2,648	114	275	2,373	2,923	2.01%	2.47%
Santa Cruz, CA PMSA	123,889	2,747	117	280	2,467	3,027	1.99%	2.44%
Los Angeles-Anah'm-Riv'side, CA CMSA	7,326,510	162,323	896	2,150	160,173	164,473	2.19%	2.24%
NY-N'ern NJ-Long I., CT-NJ-NY CMSA	9,252,112	200,920	997	2,392	198,528	203,312	2.15%	2.20%
Santa Barb.-San. Mar.-Lompoc, CA MSA	189,331	4,005	141	338	3,667	4,343	1.94%	2.29%
Bloomington, IN MSA	55,486	1,147	75	181	966	1,328	1.74%	2.39%
Nashville, TN MSA	525,143	10,827	231	556	10,271	11,383	1.96%	2.17%
Ann Arbor, MI PMSA	158,180	3,244	127	304	2,940	3,548	1.86%	2.24%
Seattle, WA PMSA	1,096,386	22,115	331	794	21,321	22,909	1.94%	2.09%
Boston, MA PMSA	1,601,070	31,690	396	951	30,739	32,641	1.92%	2.04%
San Fran.-Oakland-San Jose, CA CMSA	3,384,873	66,683	575	1,379	65,304	68,062	1.93%	2.01%
Washington, DC-MD-VA MSA	2,259,197	44,241	468	1,123	43,118	45,364	1.91%	2.01%
Danbury, CT PMSA	107,239	2,063	101	243	1,820	2,306	1.70%	2.15%
Albuquerque, NM MSA	241,737	4,616	151	363	4,253	4,979	1.76%	2.06%
Honolulu, HI MSA	408,304	7,780	196	471	7,309	8,251	1.79%	2.02%
Anaheim-Santa Ana, CA PMSA	1,347,338	25,428	355	852	24,576	26,280	1.82%	1.95%
Santa Rosa-Petaluma, CA PMSA	202,179	3,784	137	329	3,455	4,113	1.71%	2.03%
Orlando, FL MSA	580,287	10,815	231	555	10,260	11,370	1.77%	1.96%
Austin, TX MSA	427,176	7,960	199	477	7,483	8,437	1.75%	1.97%
Fort Collins-Loveland, CO MSA	98,877	1,838	95	229	1,609	2,067	1.63%	2.09%
Seattle-Tacoma, WA CMSA	1,363,726	24,987	352	844	24,143	25,831	1.77%	1.89%
Champaign-Urbana-Rantoul, IL MSA	90,750	1,624	90	215	1,409	1,839	1.55%	2.03%
Trenton, NJ PMSA	174,554	3,114	124	298	2,816	3,412	1.61%	1.95%
Portland, OR PMSA	657,912	11,692	241	578	11,114	12,270	1.69%	1.86%
San Diego, CA MSA	1,210,110	21,405	326	782	20,623	22,187	1.70%	1.83%
Illustrative smaller areas:								
Metro A	300,000	1,000	71	170	830	1,170	0.28%	0.39%
Metro B	250,000	800	63	152	648	952	0.26%	0.38%
Metro C	200,000	600	55	131	469	731	0.23%	0.37%
Metro D	200,000	500	50	120	380	620	0.19%	0.31%
Metro E	200,000	200	32	76	124	276	0.06%	0.14%
Metro F	200,000	100	22	54	46	154	0.02%	0.08%

* The standard error is multiplied by a sample design factor that varies for different types of data collected in the sample. For occupation, the sample design factor is 1.2 or 1.3, depending on the state. A multiplier of 1.2 is used in this table. (For the calculations, the labor force doubled was used as a proxy for the size of each metropolitan area.)

** This is the range within which we would expect a number or percentage to fall in 95 out of 100 samples that followed the census procedures. If the result for two metropolitan areas falls in essentially the same range, then the chances are that the difference in the number or percentage between the two metropolitan areas is of no importance. Metropolitan areas grouped together with no space between them are essentially identical in percent of artists in the labor force. Metropolitan areas not grouped together may or may not be different, depending on the range of their estimates.

Table 20SE. Sampling error estimates for artist occupations by sex, race, and Hispanic: United States, 1990, 1980, and 1970

ONE STANDARD ERROR (Design factor 1.3, Population size = labor force total)

	Total	Male	Female	White	Black	Other	Hispanic	Not Hispanic
Actors and directors								
1990	1,875	1,475	1,158	1,774	505	336	416	1,828
1980	1,468	1,189	862	1,404	355	245	268	1,444
1970	1,136	919	667	1,094	274	136	212	1,116
Announcers								
1990	1,391	1,238	634	1,299	418	271	325	1,352
1980	1,228	1,110	525	1,159	353	201	255	1,201
1970	913	883	230	897	143	87	121	905
Architects								
1990	2,243	2,067	872	2,133	377	582	507	2,185
1980	1,859	1,780	536	1,783	311	422	374	1,821
1970	1,312	1,286	262	1,277	202	227	174	1,301
Authors								
1990	1,850	1,315	1,303	1,798	319	299	256	1,833
1980	1,212	903	808	1,182	200	176	174	1,199
1970	944	793	512	934	120	60	103	938
Dancers								
1990	839	405	735	774	229	229	227	808
1980	651	328	562	594	193	183	159	631
1970	488	211	440	452	143	112	123	472
Designers								
1990	4,367	2,916	3,258	4,149	825	1,093	1,018	4,248
1980	3,291	2,332	2,326	3,172	593	647	651	3,226
1970	2,731	2,182	1,645	2,675	378	398	468	2,690
Musicians and composers								
1990	2,179	1,786	1,249	2,038	599	488	556	2,107
1980	2,123	1,783	1,154	2,013	546	399	446	2,076
1970	1,787	1,442	1,056	1,716	468	174	331	1,756
Painters, sculptors, craft-artists, and artist printmakers								
1990	2,611	1,801	1,893	2,490	497	612	577	2,547
1980	2,216	1,597	1,538	2,135	396	441	425	2,175
1970	1,669	1,302	1,045	1,637	229	231	270	1,647
Photographers								
1990	2,145	1,793	1,180	2,024	512	497	515	2,083
1980	1,744	1,525	845	1,668	395	321	347	1,709
1970	1,473	1,359	566	1,439	258	179	269	1,448
Teachers of art, drama, and music								
1990	829	583	589	792	172	172	145	816
1980	955	687	662	918	218	144	124	946
1970	1,161	901	732	1,136	215	103	106	1,156
Other artists								
1990	1,731	1,226	1,222	1,594	401	543	578	1,632
1980	1,262	971	807	1,202	286	257	267	1,234
1970	1,306	1,101	703	1,258	282	209	278	1,276
Total artists								
1990	7,275	5,447	4,860	6,896	1,570	1,745	1,717	7,075
1980	5,873	4,639	3,626	5,633	1,231	1,143	1,159	5,760
1970	4,842	4,034	2,696	4,719	882	650	823	4,773

Table 23SE. Sampling error estimates for artist occupations by years of school completed and by age: United States, 1990, 1980, and 1970

ONE STANDARD ERROR (Design factor 1.3, Population size = labor force total)

	Years of school completed							Age				
	Total	1-8	9-11	12	13-15	16	17+	Total	16-24	25-34	35-54	55+
Actors and directors												
1990	1,875	100	280	542	1,023	1,257	713	1,875	611	1,162	1,215	565
1980	1,468	180	242	563	775	837	669	1,468	575	955	846	445
1970	1,136	215	297	563	649	514	393	1,136	547	635	670	373
Announcers												
1990	1,391	132	431	599	941	652	250	1,391	774	830	732	332
1980	1,228	167	378	622	741	547	320	1,228	797	737	509	266
1970	913	88	249	498	580	366	211	913	536	524	478	204
Architects												
1990	2,243	71	192	462	862	1,627	1,179	2,243	481	1,301	1,563	818
1980	1,859	136	313	536	689	819	1,381	1,859	540	1,147	1,174	686
1970	1,312	188	222	381	480	624	934	1,312	312	685	923	551
Authors												
1990	1,850	102	225	395	805	1,221	1,034	1,850	415	886	1,316	858
1980	1,212	141	150	360	505	697	745	1,212	279	655	786	586
1970	944	114	153	398	488	512	442	944	248	476	663	404
Dancers												
1990	839	151	358	454	464	326	156	839	533	536	342	128
1980	651	132	278	402	311	207	167	651	438	418	216	102
1970	488	135	250	307	209	109	85	488	351	290	159	67
Designers												
1990	4,367	557	1,039	1,886	2,708	2,392	1,065	4,367	1,445	2,528	2,915	1,470
1980	3,291	555	884	1,761	1,809	1,492	1,079	3,291	1,322	1,912	2,000	1,204
1970	2,731	660	959	1,588	1,409	1,037	734	2,731	944	1,507	1,825	989
Musicians and composers												
1990	2,179	358	556	859	1,254	1,106	882	2,179	740	1,220	1,403	865
1980	2,123	384	644	1,057	1,168	873	841	2,123	1,001	1,368	1,038	749
1970	1,787	376	736	944	955	611	580	1.787	1,030	857	962	689
Painters, sculptors, craft-artists, and artist printmakers												
1990	2,611	281	532	1,025	1,646	1,451	776	2,611	841	1,447	1,763	960
1980	2,216	286	480	1,050	1,271	1,099	823	2,216	897	1,333	1,288	821
1970	1,669	281	463	959	927	707	463	1,669	686	866	1,083	628
Photographers												
1990	2,145	223	526	948	1,364	1,143	464	2,145	848	1,226	1,395	663
1980	1,744	257	459	960	991	761	532	1,744	811	1,044	955	617
1970	1,473	322	575	981	736	414	243	1,473	639	717	956	577
Teachers of art, drama, and music												
1990	829	14	41	137	299	369	664	829	245	391	596	344
1980	955	83	94	205	293	363	798	955	294	551	624	364
1970	1,161	66	88	229	323	392	1,013	1,161	360	638	784	444
Other artists												
1990	1,731	272	475	737	1,034	830	632	1,731	696	969	1,095	613
1980	1,262	296	415	706	639	493	429	1,262	603	763	662	459
1970	1,306	298	416	678	683	500	517	1,306	529	684	843	498
Total artists		0	0									
1990	7,275	842	1,630	2,833	4,255	4,167	2,571	7,275	2,502	4,160	4,822	2,570
1980	5,873	902	1,488	2,836	3,109	2,709	2,590	5,873	2,482	3,551	3,389	2,122
1970	4,842	1,004	1,611	2,661	2,516	1,904	1,725	4,842	2,065	2,533	3,092	1,833

Table 29SE. Sampling error estimates for earnings in year before the census of artists by sex, for artists with some earnings who worked 50 to 52 weeks, and 35 to 99 hours per week, United States: 1980 and 1990

WORKED FULL TIME, FULL YEAR, 1989	Number of full year full time earners	Median earnings in 1989	Median earnings as a percent of confidence limits earnings				Dollar range of confidence limits 1989			
			-1 SE	+1 SE	-2 SE	+2 SE	-1 SE	+1 SE	-2 SE	+2 SE
MALE										
Actors/directors	36,822	$32,077	2.5%	3.8%	4.9%	7.3%	$31,273	$33,291	$30,498	$34,430
Announcers	24,571	$21,424	3.4%	3.9%	6.7%	9.8%	$20,705	$22,250	$19,988	$23,514
Architects	107,245	$40,110	1.6%	0.9%	3.6%	1.8%	$39,455	$40,471	$38,671	$40,832
Authors	28,890	$33,837	4.8%	2.8%	7.7%	5.4%	$32,205	$34,792	$31,245	$35,672
Dancers	1,273	$16,623	11.1%	29.1%	21.9%	53.1%	$14,784	$21,467	$12,974	$25,454
Designers	197,675	$32,549	0.7%	0.7%	1.4%	1.4%	$32,316	$32,783	$32,083	$33,016
Musicians/composers	36,143	$22,988	4.3%	4.4%	6.9%	7.2%	$21,991	$23,991	$21,408	$24,635
Painters	60,433	$24,320	2.5%	2.3%	5.3%	4.6%	$23,710	$24,884	$23,041	$25,449
Photographers	66,562	$25,456	1.8%	1.8%	3.6%	4.4%	$24,998	$25,914	$24,541	$26,567
Teachers art, etc.	3,304	$34,982	6.0%	8.3%	10.3%	16.3%	$32,893	$37,870	$31,380	$40,684
Other artists	21,629	$25,310	3.5%	4.1%	20.1%	10.4%	$24,415	$26,360	$20,227	$27,935
FEMALE										
Actors/directors	21,257	$28,032	5.0%	3.0%	9.4%	6.0%	$26,641	$28,866	$25,391	$29,708
Announcers	5,305	$19,325	7.9%	10.6%	14.0%	21.6%	$17,792	$21,377	$16,615	$23,506
Architects	14,300	$29,451	2.7%	3.0%	5.6%	6.7%	$28,657	$30,332	$27,789	$31,412
Authors	20,481	$25,101	4.9%	5.0%	8.1%	9.9%	$23,881	$26,367	$23,074	$27,579
Dancers	3,445	$15,623	15.3%	16.2%	23.4%	27.2%	$13,229	$18,159	$11,970	$19,875
Designers	164,067	$20,394	0.8%	0.6%	1.3%	1.3%	$20,225	$20,524	$20,135	$20,653
Musicians/composers	9,730	$18,653	5.4%	5.4%	10.9%	12.1%	$17,640	$19,662	$16,621	$20,902
Painters	49,595	$18,762	2.0%	2.0%	4.1%	4.1%	$18,381	$19,143	$18,000	$19,524
Photographers	19,428	$17,381	4.5%	4.4%	9.0%	8.4%	$16,600	$18,145	$15,822	$18,844
Teachers art, etc.	2,254	$25,316	8.5%	9.5%	16.7%	21.1%	$23,170	$27,722	$21,077	$30,653
Other artists	14,855	$19,193	5.5%	6.1%	10.2%	14.5%	$18,132	$20,361	$17,234	$21,972

WORKED FULL TIME, FULL YEAR, 1979	Number of full year full time earners	Median earnings in 1979	Median earnings as a percent of confidence limits earnings				Dollar range of confidence limits 1989			
			-1 SE	+1 SE	-2 SE	+2 SE	-1 SE	+1 SE	-2 SE	+2 SE
MALE										
Actors/directors	24,560	$32,118	3.5%	3.8%	7.1%	8.7%	$31,003	$33,349	$29,840	$34,924
Announcers	18,260	$21,135	2.9%	2.9%	6.0%	7.7%	$20,527	$21,743	$19,859	$22,761
Architects	76,540	$36,805	1.6%	1.6%	3.8%	4.1%	$36,202	$37,404	$35,404	$38,303
Authors	12,140	$25,815	6.1%	11.9%	15.7%	20.9%	$24,233	$28,888	$21,752	$31,200
Dancers	740	$21,667	16.8%	33.6%	28.9%	72.6%	$18,033	$28,950	$15,399	$37,400
Designers	126,280	$31,622	1.0%	1.0%	2.0%	5.2%	$31,309	$31,935	$30,996	$33,252
Musicians/composers	22,380	$20,781	2.5%	2.5%	7.5%	2.9%	$20,255	$21,306	$19,230	$21,382
Painters	48,280	$25,126	2.3%	2.3%	4.7%	5.4%	$24,543	$25,708	$23,948	$26,485
Photographers	45,780	$24,247	2.7%	2.2%	5.8%	4.5%	$23,594	$24,789	$22,849	$25,332
Teachers art, etc.	5,620	$33,722	4.8%	8.8%	8.5%	13.4%	$32,091	$36,679	$30,840	$38,250
Other artists	13,720	$23,833	7.9%	5.3%	15.3%	9.9%	$21,941	$25,100	$20,182	$26,182
FEMALE										
Actors/directors	8,080	$23,692	5.8%	5.7%	10.6%	11.2%	$22,307	$25,034	$21,175	$26,335
Announcers	3,660	$16,636	10.7%	11.7%	18.9%	20.7%	$14,853	$18,575	$13,486	$20,078
Architects	4,880	$25,448	3.8%	4.2%	8.6%	8.0%	$24,483	$26,521	$23,271	$27,479
Authors	6,800	$17,833	7.7%	12.8%	22.4%	19.9%	$16,458	$20,115	$13,833	$21,385
Dancers	2,300	$13,625	14.5%	16.0%	22.3%	47.7%	$11,655	$15,800	$10,589	$20,127
Designers	74,760	$17,060	1.9%	1.2%	3.9%	3.2%	$16,730	$17,270	$16,400	$17,600
Musicians/composers	4,560	$14,700	9.5%	9.3%	19.3%	19.5%	$13,310	$16,061	$11,869	$17,567
Painters	29,160	$16,989	2.2%	2.2%	4.4%	4.4%	$16,613	$17,364	$16,237	$17,741
Photographers	8,940	$15,804	5.0%	4.4%	10.4%	8.7%	$15,020	$16,507	$14,156	$17,172
Teachers art, etc.	2,360	$25,143	4.9%	8.8%	26.9%	16.1%	$23,916	$27,350	$18,375	$29,182
Other artists	5,820	$15,167	10.0%	9.6%	17.2%	17.7%	$13,657	$16,624	$12,564	$17,848

Table 34. Universes for Tables 19-26 and Table 33 showing derivation of Table 33 universe.

	Universe for Tables 19-26						Derived universe for Table 33 Household % from 5% sample multiplied by number from 15% sample	
	15% SAMPLE		5% SAMPLE					
	COMBINED H'hld & GQ in labor force		COMBINED H'hld & GQ in labor force		HOUSEHOLD ONLY in labor force			
	Total in labor force		Total in labor force		Total in labor force		Total in labor force	
OCCUPATION	1980	1990	1980	1990	1980	1990	1980	1990
Actors/directors	67,180	109,573	67,660	108,790	67,060	107,959	66,584	108,736
Announcers	46,986	60,269	45,360	60,298	43,700	58,335	45,266	58,307
Architects	107,693	156,874	108,540	157,759	108,120	157,493	107,276	156,609
Authors	45,748	106,730	45,900	107,383	45,540	105,747	45,389	105,104
Dancers	13,194	21,913	13,060	22,499	12,780	22,215	12,911	21,636
Designers	338,374	596,802	338,620	600,810	336,920	597,467	336,675	593,481
Musicians/composers	140,556	148,020	137,420	149,473	133,820	146,159	136,874	144,738
Painters	153,162	212,762	151,360	210,404	150,140	208,899	151,927	211,240
Photographers	94,762	143,520	95,940	145,145	94,700	143,385	93,537	141,780
Teachers art, etc.	28,385	21,393	29,140	21,338	28,280	20,778	27,547	20,832
Other artists	49,653	93,421	50,820	93,365	49,420	91,827	48,285	91,882
Total artists	1,085,693	1,671,277	1,083,820	1,677,264	1,070,480	1,660,264	1,072,330	1,654,338
Prof. spec. occups	12,275,140	16,647,688	12,318,000	16,564,377	12,172,000	16,405,130	12,129,648	16,487,640
Occup. labor force	103,718,076	122,473,499	103,206,000	122,086,710	102,254,000	120,888,722	102,761,352	121,271,716

Table 35. Comparison of weighted counts of artists by sex from 1980 and 1990 census samples of 16.7%, 5% and 1%.

	Total, 1980			Males, 1980			Females, 1980		
OCCUPATION	16.7% Sample	5% Sample	1% Sample	16.7% Sample	5% Sample	1% Sample	16.7% Sample	5% Sample	1% Sample
Actors/directors	67,180	67,660	64,700	44,049	45,020	42,200	23,131	22,640	22,500
Announcers	46,986	45,360	44,500	38,392	36,640	35,300	8,594	8,720	9,200
Architects	107,693	108,540	112,000	98,743	99,140	102,900	8,950	9,400	9,100
Authors	45,748	45,900	46,400	25,409	24,900	26,000	20,339	21,000	20,400
Dancers	13,194	13,060	13,300	3,350	3,200	3,500	9,844	9,860	9,800
Designers	338,374	338,620	325,500	169,604	168,320	165,300	168,770	170,300	160,200
Musicians/composers	140,556	137,420	144,600	99,065	96,480	104,100	41,491	40,940	40,500
Painters	153,162	151,360	153,500	79,445	78,440	77,600	73,717	72,920	75,900
Photographers	94,762	95,940	93,900	72,496	72,220	72,300	22,266	23,720	21,600
Teachers	28,385	29,140	28,400	14,718	15,320	14,900	13,667	13,820	13,500
Other artists	49,653	50,820	54,600	29,356	30,860	30,700	20,297	19,960	23,900
Total artists	1,085,693	1,083,820	1,081,400	674,627	670,540	674,800	411,066	413,280	406,600

	Total, 1990			Males, 1990			Females, 1990		
OCCUPATION	16.7% Sample	5% Sample	1% Sample	16.7% Sample	5% Sample	1% Sample	16.7% Sample	5% Sample	1% Sample
Actors/directors	109,573	108,790	109,197	67,787	65,622	68,248	41,786	43,168	40,949
Announcers	60,269	60,298	62,071	47,752	47,614	49,007	12,517	12,684	13,064
Architects	156,874	157,759	151,731	133,212	134,036	128,996	23,662	23,723	22,735
Authors	106,730	107,383	108,450	53,863	55,014	54,430	52,867	52,369	54,020
Dancers	21,913	22,499	22,728	5,097	5,373	4,633	16,816	17,126	18,095
Designers	596,802	600,810	591,423	265,299	267,778	266,952	331,503	333,032	324,471
Musicians/composers	148,020	149,473	141,439	99,409	100,451	99,445	48,611	49,022	41,994
Painters	212,762	210,404	216,849	101,067	100,095	101,414	111,695	110,309	115,435
Photographers	143,520	145,145	141,827	100,169	100,220	97,856	43,351	44,925	43,971
Teachers	21,393	21,338	23,330	10,591	9,962	12,957	10,802	11,376	10,373
Other artists	93,421	93,365	92,616	46,865	47,787	45,316	46,556	45,578	47,300
Total artists	1,671,277	1,677,264	1,661,661	931,111	933,952	929,254	740,166	743,312	732,407

Table 36. Universe changes between 1980 and 1990 for earnings and household income tables

	PERSONS IN HOUSEHOLDS IN LABOR FORCE Excludes group quarters. See Part II Text.)				PERCENT CHANGE 1980 minus 1990			PERCENT BY YEAR (See Part II text.)			
	In labor force = household income universe		Work full year, full time last year*		Total HH+GQ	In HH only	Full year full time	In households only		Full year, full time workers	
	1980	1990	1979**	1989***				1980	1990	1979**	1989***
OCCUPATION											
Actors/directors	66,584	108,736	32,640	58,079	63.1%	63.3%	77.9%	99.1%	99.2%	44.1%	48.4%
Announcers	45,266	58,307	21,920	29,876	28.3%	28.8%	36.3%	96.3%	96.7%	46.1%	47.0%
Architects	107,276	156,609	81,420	121,545	45.7%	46.0%	49.3%	99.6%	99.8%	71.6%	74.0%
Authors	45,389	105,104	18,940	49,371	133.3%	131.6%	160.7%	99.2%	98.5%	40.1%	44.3%
Dancers	12,911	21,636	3,040	4,718	66.1%	67.6%	55.2%	97.9%	98.7%	19.9%	19.6%
Designers	336,675	593,481	201,040	361,742	76.4%	76.3%	79.9%	99.5%	99.4%	55.5%	55.9%
Musicians/composers	136,874	144,738	26,940	45,873	5.3%	5.7%	70.3%	97.4%	97.8%	17.9%	25.9%
Painters	151,927	211,240	77,440	110,028	38.9%	39.0%	42.1%	99.2%	99.3%	48.1%	48.6%
Photographers	93,537	141,780	54,720	85,990	51.5%	51.6%	57.1%	98.7%	98.8%	53.2%	54.2%
Teachers art, etc.	27,547	20,832	7,980	5,558	-24.6%	-24.4%	-30.4%	97.0%	97.4%	26.2%	24.4%
Other artists	48,285	91,882	19,540	36,484	88.1%	90.3%	86.7%	97.2%	98.4%	35.8%	34.1%
Total artists	1,072,330	1,654,338	545,620	909,264	53.9%	54.3%	66.6%	98.8%	99.0%	47.0%	50.0%
Professionals	12,129,648	16,487,640	6,596,000	9,413,164	35.6%	35.9%	42.7%	98.8%	99.0%	50.4%	52.9%
Labor force	102,761,352	121,271,716	60,212,000	73,706,224	18.1%	18.0%	22.4%	99.1%	99.0%	53.1%	55.3%

* Equals the earnings universe, excludes persons reporting zero earnings.

** For 1979 this universe excludes persons in the Armed Forces living in households.

*** For 1989 this universe includes persons in the Armed Forces living in households.

Table 37. Armed Forces persons in households in 1990 who worked full-time full-year in 1989 by artist occupation: United States

SEX OCCUPATION	Full-year full-time prior year, in households census year Total in households	 Armed forces in Households	Percent Armed forces
MALE			
Actors/Directors	36,822	184	0.50%
Announcers	24,571	129	0.53%
Architects	107,245	0	0.00%
Authors	28,890	348	1.20%
Dancers	1,273	0	0.00%
Designers	197,675	277	0.14%
Musicians	36,143	3,189	8.82%
Painters	60,433	145	0.24%
Photographers	66,562	1,429	2.15%
Art/Teachers	3,304	0	0.00%
Artists/NEC	21,629	1,015	4.69%
Total	584,547	6,716	1.15%
FEMALE			
Actors/Directors	21,257	0	0.00%
Announcers	5,305	0	0.00%
Architects	14,300	64	0.45%
Authors	20,481	0	0.00%
Dancers	3,445	82	2.38%
Designers	164,067	640	0.39%
Musicians	9,730	121	1.24%
Painters	49,595	240	0.48%
Photographers	19,428	0	0.00%
Art/Teachers	2,254	207	9.18%
Artists/NEC	14,855	1,354	9.11%
Total	324,717	8,070	2.49%

Table 38. Number of postsecondary teachers by subject, 1990 and 1980

SUBJECT	MALE TEACHERS				FEMALE TEACHERS				TOTAL TEACHERS			
	Number 1990	Number 1980	Percent change (1990-1980/1980)	% change less % artist change	Number 1990	Number 1980	Percent change (1990-1980/1980)	% change less % artist change	Number 1990	Number 1980	Percent change (1990-1980/1980)	% change less % artist change
Earth, environmental, marine sciences	889	1,904	-53.3%	-25.0%	364	370	-1.6%	19.3%	1,253	2,274	-44.9%	-20.1%
Biological sciences	4,031	6,537	-38.3%	-10.0%	2,070	3,114	-33.5%	-12.6%	6,101	9,651	-36.8%	-12.0%
Chemistry	4,053	6,671	-39.2%	-10.9%	1,393	1,711	-18.6%	2.4%	5,446	8,382	-35.0%	-10.2%
Physics	3,876	4,882	-20.6%	7.7%	556	532	4.5%	25.5%	4,432	5,414	-18.1%	6.7%
Natural sci.	292	637	-54.2%	-25.8%	97	194	-50.0%	-29.0%	389	831	-53.2%	-28.4%
Psychology	2,409	3,494	-31.1%	-2.7%	2,109	2,326	-9.3%	11.6%	4,518	5,820	-22.4%	2.4%
Economics	2,650	4,024	-34.1%	-5.8%	776	1,008	-23.0%	-2.1%	3,426	5,032	-31.9%	-7.1%
History	2,996	4,267	-29.8%	-1.4%	1,125	1,333	-15.6%	5.4%	4,121	5,600	-26.4%	-1.6%
Political sci.	752	1,677	-55.2%	-26.8%	253	389	-35.0%	-14.0%	1,005	2,066	-51.4%	-26.6%
Sociology	905	2,263	-60.0%	-31.7%	552	944	-41.5%	-20.6%	1,457	3,207	-54.6%	-29.8%
Social sci.	548	1,301	-57.9%	-29.5%	312	708	-55.9%	-35.0%	860	2,009	-57.2%	-32.4%
Engineering	6,489	9,719	-33.2%	-4.9%	1,288	1,253	2.8%	23.8%	7,777	10,972	-29.1%	-4.3%
Mathematical sci.	10,639	11,390	-6.6%	21.8%	6,718	5,307	26.6%	47.6%	17,357	16,697	4.0%	28.8%
Computer sci.	2,679	1,842	45.4%	73.8%	1,705	716	138.1%	159.1%	4,384	2,558	71.4%	96.2%
Medical sci.	1,976	6,891	-71.3%	-43.0%	767	2,123	-63.9%	-42.9%	2,743	9,014	-69.6%	-44.8%
Health specialties	3,784	2,596	45.8%	74.1%	11,927	16,955	-29.7%	-8.7%	15,711	19,551	-19.6%	5.2%
Business	2,288	4,022	-43.1%	-14.8%	2,775	3,594	-22.8%	-1.8%	5,063	7,616	-33.5%	-8.7%
Agriculture & forestry	759	3,246	-76.6%	-48.3%	302	567	-46.7%	-25.8%	1,061	3,813	-72.2%	-47.4
Art, drama and music	10,591	14,781	-0.283	0.0%	10,802	13,667	-21.0%	0.0%	21,393	28,448	-24.8%	0.0%
Physical education	2,042	5,382	-62.1%	-33.7%	2,073	3,626	-42.8%	-21.9%	4,115	9,008	-54.3%	-29.5%
Education	747	1,373	-45.6%	-17.2%	708	935	-24.3%	-3.3%	1,455	2,308	-37.0%	-12.2%
English	10,243	10,538	-2.8%	25.5%	14,033	12,865	9.1%	30.0%	24,276	23,403	3.7%	28.5%
Foreign language	2,966	4,039	-26.6%	1.8%	7,059	5,915	19.3%	40.3%	10,025	9,954	0.7%	25.5%
Law	3,158	3,301	-4.3%	24.0%	1,397	811	72.3%	93.2%	4,555	4,112	10.8%	35.6%
Social work	103	329	-68.7%	-40.3%	205	481	-57.4%	-36.4%	308	810	-62.0%	-37.2%
Theology	2,001	2,809	-28.8%	-0.4%	615	767	-19.8%	1.1%	2,616	3,576	-26.8%	-2.0%
Trade and Industrial	668	2,490	-73.2%	-44.8%	602	1,105	-45.5%	-24.6%	1,270	3,595	-64.7%	-39.9%
Home economics	94	163	-42.3%	-14.0%	499	1,824	-72.6%	-51.7%	593	1,987	-70.2%	-45.4%
Total in specified subjects	84,628	122,568	-31.0%	-2.6%	73,082	85,140	-14.2%	6.8%	157,710	207,708	-24.1%	0.7%
No specified subject:												
Subject not elsewhere classified	8,779	2,565	242.3%	270.6%	4,676	1,402	233.5%	261.9%	13,455	3,967	239.2%	267.5%
No specified teaching subject	374,022	279,034	34.0%	62.4%	241,046	146,503	64.5%	92.9%	615,068	425,537	44.5%	72.9%
Total, no specified subject	382,801	281,599	35.9%	64.3%	245,722	147,905	66.1%	94.5%	628,523	429,504	46.3%	74.7%
Total, specified and non-specified subject	467,429	404,167	15.7%	44.0%	318,804	233,045	36.8%	57.8%	786,233	637,212	23.4%	51.7%

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